

IMPROVEMENTS IN THE ADMINISTRATION

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LONDON:

1858.

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§c., §c.

Ar this time, when a calamity unexampled in the history of British India has exc ted an unusual amount of interest in Indian affans, while the statements publicly made, and the opmions expressed, concenning the administration of the Indian Government, stukingly manifest the deficiency of conect information on the subject; a brief survey of the principal measures which have been of late adopted for imnoving the internal government of the country, and the physical and mental condition of its inhabitants,* nay be serviceable in removing false impressions, and a supplying materials for a deliberate judgment. It may be thought that this survey would most itly commence from the last renewal of the powers of he East-India Company, with some modifications, n 1853; and it must be said that the years which ave since elapsed have been marked by a degree of ctivity in every description of public improvement, ot only greater than that exhibited previously, but nsurpassed, it is believed, in any country and in any

course of progressive improvement. The foundation of all the steat measures which were in active progress during that interval, was laid at an end er period, and the new measures which have been in tated dumg • that brie term have not yet had time to exhibit tug ble results. It is therefore necessary to trace the stream of Indian improvement from a point much higher up in is course; beg nuing at the origin of the measures which have contributed most, in each department, to give to the administration of India its present enlightened character

REVENUE ADMINISTRATION, & RIGHTS

Connection of the Revenue the Rights and Condition of the People.

age. At interval, however, of only four years is $\frac{1}{29}$ and that they should be so assessed and levied as evidently too short to a ford an intelligible view of a $\sqrt{2}$ neither to favour one person or class at the expense of another, not to interfere mjuniously with industry. These requisites, too, are obviously of more than their ordinary in portince, where the bulk of the tax-paying population consists of persons depending for subsistence on then own evertions in tilling the soil. But these general considerations afford only an imporfect conception of the relation of the tax-paying cultivator in India to the revenue system Throughout the greater part of India, there is no intermediate landlord between the mmediate cultivator and the State. The cultivator does not pay rent to one person and taxes to another. his taxes are his rent (or a part of his ient); and his condition is affected by the good or bad quality of the fiscal administration, in every way in which the condition of a European tenantry can be affected by a good on a bad landlord. And there is an additional fact, of greater importance than all the OF THE RURAL POPULATION. nest. The titles to lund, and to all rights assung out In a country like India, the departments of of land, (that is, to all the property of the country, public business on which the good government of the except a shall percentage), are in India a branch of Systen with country, and the security and contentmont of the the revenue administration. The revenue records, people, principally depend, are the revenue administrawhich show who were the persons held responsible for "tion and the judicial administration. The importance the revenue by the officers of former governments, are of a good and easily accessible alministration of the general register of title. They always constitute justice is the same in India as elsewhere; but the the principal, and in many cases the sole, reliable manner in which the entire economical condition of widence of right to the land. While the British nearly the whole population is determined by the Government confined itself, as it necessarily did on management of the revenue department, cannot, by the first acquisition of any district, to annual or short persons unacquainted with India, be understood settlements, it had no need to look beyond the fact of without special explanations. actual possession; but when it began to grant leases or Everywhere, indeed, it is of first-rate importance settlements for long terms of years, it was bound to to a people that the taxes should be of moderate ascertain that the persons whom it admitted to these amount; that they should be certain, not arbitrary, engagements were those really entitled to the land.

'Il's could only be done by manute local inquines 🖁 Trore is no doubt that many of them were persons and just equived that the sould be indexed by \widetilde{f} of hereditary influence and station in the country, and nade, and aff user given to all juties on the that their connection with the lands, of which they spot. The revenue efficers of Government being this were now recognized as the proprietors, had in general under to recessify, for revenie ju poses, of investibeen of a per narent chruactor. But their position was gating a diascenning al titles o and, it las been nevertheless essentially that of middlemen; collectdeemed proper that the adjudication so performed ; mg the roverue, not for themselves, but for the Mogul should have to fo co of a judicial cecision; flog-Government ; accousing to that Government for their if any of the persons 'rterested considers humsef receipts, and remunerated by a percentage (generally aggueved by the decision, he can seek rediess by a ten per cent) of the collections. It is now universally suit in the regular courts. It's lence uppriont, that admitted that they never had the power of disposing m Indra every revenue officer is also, in the most inabiliarily of the land There were, everywhere, at portant serve of the word, a judicial officer. T_{le} least large classes of tenants, whom they could not seen ty of the most important and extensive class of [lawfully eject, except for non-payment of revenue, proprietary rights throu, rout the country, depends and from whom they could not lawfully exact more upon the manner in which the revenue branch of the than the customary payments. Government performs its judicial functions; and the These rights of the occupying tenants it was history of the revenue administration of India is the the full intention of Lord Cornwallis to preserve. But

history of its lunded property, and of the economics & the Government demand being now fixed in percondition of the whole agricultural population petuity, and claimable from the landlord only, the An important mistake, committed with the most invenue officers had no longer any power of intergenerous intertions by the administration of Loid posing in favour of the tenantry; and their rights Convallis towards the end of the last century, has were I encolorthe left for protection solely to the divested the Government, in the oldest and most fert le courts of justice. But the courts of justice could of its Indian possessions, of this great power of in proceed only by regular suit, on the complaint of the fluo ieng beneficially the condition of the cultivitors muned party. The poverty of the people, their of the soi In the provinces of Bengal and Behau passive character, and the extreme difficulty of to which were subsequently added Benares, and proving by logal ovidence, before a distant tribunal, some districts of the Madras Presidency, the Go- what were the customary rates, have rendered this vernment gave away its rights over the soil to private potoction illusory; the rights of the Bengal ryots landlords, reserving only from each estate an annua have (as has been said) passed away sub silentro, and payment, which it solemnly bound itself never to trey have become, to all intents and purposes, tenants increase. It is not necessary here to enter into it will. These facts are not adverted to for the the d'sputed questions respecting the original chaquipose of casting blame on a generation long gone nactor and rights of those landlords or zemindars by, whose mistakes are sufficiently explained and

Per n ment Settlen ent of the Lower Provinces of Bengal.

m which the permanent settlement was in the first excused by the short experience they had then had instance conducted, the boundaries both of estates of Inlia, and the extreme difficulty which persons a and of villages or townships were undefined, and not a natured only in English ideas and institutions, have only the litigation but the alliays, occasioned by in correctly apprehending a state of facts so entroly boundary disputes, had grown into a public ovil. unlike anything which ever existed in England, as the The revenue officers were so ill informed on the whole trimework of Indian society p esonts. But subjec, that in some cases estates advertised for instice to the subsequent Governments of Indr sale on account of anears of rovenue, were purrequires it to be understood, that in the most fortile chased, and possess on was demanded, when it was and vuluable portion of the Indian territory, they found the off the estate existed only in the collector's inhomited from their predecessors an agraman system, books, having been swept away by the changes in consisting of great landlords and cottien tenants, the bed of the inver, or absorbed by the encroachforming as close a parallel is the difference between ments of the neighbouring landholders. To remedy Europe and Asia will admit, to the condition of these evils, a survey was determined on, and has been Munster and Community; and that the Government for several years in progress, for the purpose of ascorhas had, during the last sixty years, no more power taining what estates are in existence, and determining of correcting the ovils of this system, than the then boundaries. This survey has already produced Government of the mother country had, during the very appreciable benefit, and holds out the promise of sume period, of remedying the evils of a similar much more.^{*} system in Heland. The tenacity, however, of old The Governments which have admin stored Indian in prosions, which claracterizes the Hirdoos, has kept affairs in the present generation, have abstamed from alive the idea of a right still existing in the actual culmitating elsewhere the errors which were committed tivator to hold his land at a rent fixed by custom, not in the permanent sottlement of Bengal. Their object by arbitrary will; and this traditionary feeling, from has been, as new provinces were successively brought which the land ords themselves are not exempt, must under British rule, to ascentain accurately the persons, form the basis of anything that can be liereafter done and classes of persons, who by law or usage had a to improve the tenure of the Bengal ryot. beneficial interest in the land, and the nature and What the Government hall it in its power to do, extent of the boneficial interest of each; and having thus dotormined who were the persons with whom the settlement of the revenue should be concluded, to define the demand of Government on each, and limit it to the smallest amount consistent with the public necessities.

Present Implovements in Bengal.

for alleviating the operation of the existing system, it has done. It takes systematic measures for the education of zemindars who are wards of Government. It has made importative on the landlords to give to every tenant a written engagement, specifying the amoun of cent and the conditions of tenuie; and it has made these engagements legally binding. It has done more. Owing to the hasty and carcless mode

The subsequent revenue administration of India * Sec Appendix (A).

is a succession of conscientious endeavours to fulfil these duties; endcavours which, in a large portion of India, have been rewarded by sign I success, and m the romander are m rapil progress towards it.

Nearly the whole - enutory of the Madas P_{10} . sidency became put of the Br tish possessions at a per of subsequent to Lord Comwall's's permanent settlement; and its revenue system was principally founded by two of the a lest men who have ever taken part in the government of Indix-Colonel Reade and Sn Thomas Mumo. Under this system, the land is not made over to great landlords, but the actual cultivator, the persant himself, is regarded as the propuetor of the soil, subject to the payment of the Government demand. He has the option annually of increasing or duminishing his holding; and, in the words of the Madras Government in their last general report, "has all the benefits of a perpetual lease, " without its responsibilities, masmuch as he can, at any F " time, throw up his lands, but cannot be ejected as long "as he pays his ducs." He also receives assistance, by remission of assessment in unfavourable seasons. The practical operation of this, which is known as the ryotwar system, evidently depends on the critainty and moderation of the Government demand. For many yous these two conditions were very insufficiontly realized. The extreme difficulty, to a & European revenue officer, of ascertaining the real reentury. For a considerable number of years after capabilities of each petty holding, and his unavoidable dependence, for much of his information, upon native subordmates, made it inevitable that great errors should be committed in the first assessments. Some were unnecessarily low, but a much greater number | acquired was not sufficient for framing it rightly, there were too high; and if not so at first, many after wards inced be no wonder if, in a new field, considerable became so, when the security which our rule had "time was in the first instance devoted to becoming

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given from the lavages of war and internal depredation, had produced its natural effect in the extension of cultivation, and consequent lowering of the price of agricultural produce; whereby, notwithstanding the increased well-being of the ryots, the same money rent became a buthensome exaction, which was comparatively little felt when the produce bore a higher price. These circumstances were, as justice required, allowed for, and reductions made, but not always sufficiently early, nor to a sufficient amount. And so long as the Government demand was too heavy, it was also uncertain, owing to the necessity of an annual inquiry to test the justice of claims to remission.

Up to this time, it could not be said that the British Government in India had anywhere succeeded m establishing the revenue administration on a sound But inquires and discussions of the utmost basis. importance were going on, and knowledge was being acquired, the want of which at former periods had led to all the mistakes. It was in the settlement of the North-western Provinces that the fruits of this increased knowledge were first gathered in.

The greater part of what are called the North- Settlemento westorn Provinces became part of the British dominions through the consequences of Lord Wellesley's Mahratta wars, in the first years of the present the conquest, the revenue arrangements were of necessity provisional. Such serious consequences having been experienced in Bengal from hastening to establish a permanent system, when the knowledge

the Northwestein Provinces.

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acquainted with the capabilities of the country, and the prescriptive rights of the different classes of its inhabitions. The delay was amply justified by its results. The settlement of the North-western Provinces, commenced and completed between 1834 and 1844, by some of the most distinguished of the Company's servants, among whom the most conspicuous in merit was Mr Robert Mertens Bird, is the first great monument which the British rule in India has exhibited, of wise, deliberate, but thorough reform, grounded on complete knowledge of the subject, and equally efficacious in removing present evils and in providing for future improvement.

It is now known that in the greater part of India, and without doubt originally throughout the whole, the property in the land (so far as that term is applicable at all in India) resides noither in the individual ryot, nor in the great officers who collected revenue for the former native governments, but in the village communities. The village community is not co-extensive with the cultivating inhabitants of the village. it consists of the descendants or representatives of those by whom the village was, at some remote period, conquered, or reelamed from waste. In most cases these proprietors are a part, and in some the whole, of the agricultural population of the village. When they we only a part, the remainder consists of persons, or the descendants of persons, who' lave taken up their residence in the village at later periods, and had no other original right than the permission of the proprietors; but some of whom have, by grant or prescription, acquired a fixity of tenue, while others have remained tenants at will. The village proprietors formed prescriptively the municipal government of the village; a fact of great importance,

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village government being the only institution, properly so called, which the Hindoos possessed.

It was with the village communities, as thus defined, that the settlement of the North-western Provinces was made; with a reservation and definition of all rights which had been acquired by any of the ryots under them. The time occupied in the operation was about ten years, and the expense incarred in it was upwards of $\pounds 500,000$. It comprehended a detailed survey of a country about 72,000 square miles in extent, containing a population of more than twentythree millions. The difficulty and complication of the process will appear from the appended note.*

The proprietary rights, as ascertained and recould at the survey, were confirmed in perpetuity; but the Government assessment was fixed, in some cases for twenty, generally for thirty, years. In a few of the districts, the term of settlement has expired, or is on the point of expring. On resuttlement, the assessment is liable to revision, and may be increased if the net produce of the land has augmented, but not proportionally to the increase of the net produce; and a pledge has besides been given, that a liberal consideration will be allowed for "improvements attri-" butable only to the efforts of the tenar thimself, and "especially with regard to such as are of a com-" parativoly recont date." ş., The effect of the settlement upon the general pressure of the Government demand was to remove megularities, and m general to lighten the aggregate burthen; the only exceptions being Goruckpore and Azimgunh, in which districts, though they are known to be still lightly taxed, a considerable increase was reffected. The beneficial results may be traced in the

* See Appendix (B).

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improved condition of the population, and the ease and punctual ty with which a revenue of more than C4,000,000 is collected, as evidenced by the small an ount of outstanding balances, and the great diminution in the number of coercive processes for the enforcement of payment.

Settlement of the Punj D

After this great decommical and social reform had been for some years in operation, the importantent tory of the Punjab became, by the event of the Sikh war, a part of British India. This took place m 1849. And now was seen the full value of the superior knowledge of native rights and institutions, which had been acquired since the period of Loid Cornwallis's settlement. The task of binging the Punjab under British rule was confided to men wisely selected from the body of public servants who had cfleeted and administered the settlement of the North western Provinces. The principles of the settlement, being grounded on a correct knowledge of the prescriptive rights of all classes, were found equally applicable to the adjacent territory of the Punjab. In India, as in other countries, great reforms have usually been of slow introduction. Our revenue improvements, so ong as they were merely tentative, were necessarily slow. But their authors were now able to proceed with the case and decision of men who thoroughly understood their work. There is something stacking in the rapidity with which the latest and best principles of Indian policy, both in revenue and judicial administration, were at once applied to the Punjib by the consummate administrators to whom the discomment of the Marquis of Dalhousie had committed the government of the province. Before a year had elapsed from the first acquisition of the country, great progress had already been made in the

introduction of the system of the North western Provinces, with its most recent improvements. The greater part of the Punjab m extert, and by far the greatest in point of importance, has since been settled for torms of years. The leases were usually shorter than in the North-western Provinces; but the assessment was lowered, as compared with that of the native Government. by Rs. 72,37,244, or £723,724; heing not less than twenty-five per cent. It has been ascertained that the Government demand does not exceed one fifth of the gross value of the produce in 11ch tracts, and one-sixth, or one-eighth, or even less, in poor tracts. The result has been a peace and security never before known in the province; a rapid merease of cultivation and production; and a contentment with our rule, which has enabled this newly conquered tenitory, inhabited by the most warlike population of India, to become the base of our operations for the

recovery of our older territories, and has made the Sikhs, so lately in arms against us, an important part of our strength for subdung the general revolt of the Bengal army. While these great improvements were taking place in the north of India, a reform of equal magnitude was being inaugurated in the west and south. The reformed revenue administration of those territories is not grounded on the village, but on the ryotwar prin-'ciplo. The ryotwar system, or that which recognizes the actual cultivator of the soil as its proprietor, and collects the Government revenue directly from him, is the general system of the South of India. Circumstances already mentioned had, during many years, prevented this system, even under the able management of Su Thomas Munio, from operating beneficially on the prosperity of the people. As, in Northern

Bombay Ryotwai Reform India, the traitories latest acquired were those which first had the benefit of our improved knowledge and experience; so, the callest example of a 'snecessful nyotwar system was in the districts (forming the greater part of the Bombay ten tories) which came under British government at the close of Lord Hastings's Malmatta war, in 1818.

The village communities still existed in those torritories; and if the vilage system had been as well understood in 1818 as it was in 1838, the settlement of the Decean would probably have been made on the same principles as that of the North western Provinces. Such, however, was not the case : Sir Thomas Munro's punciples were then in the ascendant; the settlement was, for the most part, ryotwar; and until about twenty years ago, little had been done to improve the fiscal administration of these territories, beyond the removal occasionally, as they were brought to notice, of vexatious and oppressive taxes, which had been added to, or incorporated with, the land revenue, during the declining period of the Mahratta power. The assessments which we found in force were generally, even after these reductions, excessivo; and large remissions were annually required, which necessitated every year an inquisitonal investigation into the affairs of each 1yot who claimed a share in the remissions. The agricultural population, being always hable to be called on for an amount of cent which could only be paid in the most prosperous seasons, were constantly in arrear, and were therefore without any incentive to improve their condition. To remedy these evils, a survey of the country and general revision of the assessment, were undertaken. The operation commonced in the Deccan and xSouthern Mahratta country, where it is now nearly, if

not quite, completed; and it is gradually being ex-* tended to the northern districts of the Presidency, as the experienced officers, European and native, who have been trained to this difficult duty, can be spared for the purpose. In the northern districts, however, the progress of the survey has been retarded by the greater complication of the landed tenues there pre-

valent, and by the existence of various classes of middlemen, who, like the talookdais of Oude, are hostile to our improvements, because, though preserving to them then pecumary rights, they interfere with their power.

Where any ancient proprietors, either middlemen or village communities, were found in existence, and in possession of their proprietary lights, at the time of the survey, those rights have been respected; but in general, the principle of the reformed Bombay system is 1yotwar. The land, cultivated and waste e together, is divided into portions called fields, the extent of a field being for the most part fixed at the quantity of land which can be cultivated with one yoke of bullocks. On each field the Government demand is fixed, for a period of thirty years, at a very moderate rate. While the contract is binding on the Government, the 1yot, on his side, can throw up the land at pleasure; and he is not required to pay the assessment for any year, on any field which he has "not cultivated, or undertaken to cultivate, in that The appended note^{*} explains the details of year. the process.

The fixation of the Government demand for thirty years would have been of little service to the ryot, if the demand had remained so high as to require, almost every year, remissions of uncertain amount.

* See Appendix (C).

been made in the most heavily-taxed districts, which have in general produced so great an extension of cultivation, that the revenue has scarcely suffered.

In 1855, the present enlightened Governor of Madias submitted a plan for a survey and revised assessment of the whole of the Madias territory, on the Bombuy punciple, to the consideration of the Governor-General in Council. Having obtained the approval of that authority, it was laid before the Court of Directors, and received their formal sanction in a despatch dated the 17th of December, 1856; in which also several improvements were indicated, of which the scheme appeared to be susceptible. A commoncement has thus been made in removing the last remaining blot in the administration of the land revenue of British India; for the social and economical condition of the Lower Provinces of Bengal is, 'or reasons already explained, no longer dependent upon the revenue system. Under both the reformed modes of revenue administration, the village system of the North-west Provinces and the Punjab (the introduction of which into the more recent acquisitions of Nagpore and % Oudo has been sanctioned) and the ryotwar system of the Bombay and Madras presidencies, the agricultural population other have, or will shortly have, the benefits of tenures and rights perfectly defined and secured, and moderate ronts fixed for a sufficient term. to afford, in full strength, the natural incentives to improvement. It should be remembered also, that on the expiration of the thirty years settlements, the holders will not be hable to be ejected. They will only be liable to a revision of the amount of the rent paid to Government; and it is the declared intention of the authorities, that not merely the same, but a

Ryotwar Reform in progress at Madras.

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still greater degree of moderation, shall be observed in the future, than in the past, settlements.

A further exemplification of the manner in which the Indian authorities now take advantage of the latest experience for purposes of improvement, is afforded by recent proceedings in two limited portions of the tentitory of India. Cuttack is a portion of the Lower Bengal Provinces, to which the permanent settlements of Lord Cornwallis were never extended. The revenue system of Cuttack is ryotwar; but the attempt has latterly been made to combine the advantages of the ryotwar principle, with a portion of those of the system of the North-west Provinces. The assessment is made on each holding, and the payment to be made by each nyot is fixed, by the Government officers; but the collection of it from the individual ryots by native revenue officers, with the opportunities it affords for vexation and corruption, is done away with: the ryots elect a few of their number to represent the lest; these become responsible to Government for the whole revenue of the village, and take on themselves the recovery from the other ryots of their portion of the payment, according to the terms of the settlement; having recourse to the tribunals, if (which is not a common occurrence) such aid is required. This mixed system of ryotwar and village managoment, having been successful in Cuttack, is m course of introduction into one of our latest acquisitions, the districts made over to our permanent administration by the Nizam; and the plan has been recommended by the home authorities to the attention of the Madras Government, with a view to eventual application to that presidency. After this review of the present revenue admi-Fiscal System stration of India in its bearing on the social rela-India. tions, proprietary rights, and economical condition of the mass of the people, it remains to speak of it as a merely fiscal system.

Land & venue.

Nearly two-thirds of the revenue of India consist of the ront of land. So far as this resource extends in any country, the public necessities of the country may be said to be provided for, at no expense to the people at large. Where the original right of the State to the land of the country has been reserved, and its natural, but no more than its natural, rents made available to meet the public expenditure, the people may be said to be so fai untaxed; because the Government only takes f om them as a tax, what they would otherwise have paid as sent to a private land-This proposition undoubtedly requires modifilord. cation in the case of a ryot or peasant cultivating his own land; but even in his case, if the Government demand does not exceed the amount which the land could pay as rent if let to a solvent tenant (that is, the price of its peculiar advantages of fertility or situation), the Government only reserves to itself, instead of conceding to the cultivator, the profit of a kind of natural monopoly, leaving to him the same reward of his labour and capital which is obtained by the re-'mainder of the industrious population. Any amount whatever of revenue, therefore, derived from the rent of land, cannot be regarded, generally speaking, as a buithen on the tax-paying community. But to this it is of course essential that the demand of revonue should be kept within the limits of a fair rent. Under the native Governments, and in the earlier periods of our own, this limit was often exceeded. But under the British rule, in overy instance in which the fact of excessive assessment was proved by large outstanding balances and increased

difficulty of realization, the Government Las, when the fact was ascertained, taken measures for reducing the assessment. The history of our government in India has been a continued series of reductions of taxation; and in all the improved systems of revenue administration, of which an account has been given in the preceding part of this paper, the object has been not morely to keep the Government demand within the limits of a fair rent, but to leave a large portion of the rent to the proprietors. In the settlement of the North-west Provinces, the demand was limited to twothirds of the amount which it appeared, from the best attainable information, that the land could afford to pay as rent. The principle which has been laid down for the next settlement, and acted on where ver resettlement has commenced, is still more liberal: the Government demand is fixed at one-half, instead of two-thuds, of the average net produce; that is, of a fair rent. The same general standard has Leen adopted for guidance in the new assessment of the Madias terntory. In Bombay no fixed proportion has been kept in view; but the object has been, that land should possess a saleable value. That this object has been attained throughout the surveyed districts of Bombay, . there is full evidence: and as the 1yots have been secured from increase of revenue for the space of thirty years, the value of land may be expected, from the progress of improvement, to be constantly on the increase. It has been shown above, that by far the largest item in the public revenue of India is obtained virtually without taxation, because obtained by the mere interception of a payment, which, if not made to the State for public uses, would generally be made to, individuals for their private use A similar remark

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w though for a different reason, is applicable to the second in amount of the sources of Indian revenue,----that of The opium revenue is not derived from the opium. taxation of any class of hor Majesty's subjects, but is (as far as this can be truly said of any impost) paid wholly by foreigners. It cannot reasonably be contended that this is an improper source of revenue, or that the builthoning of an article considered to be noxious, with an amount of taxation which has sometimes caused it to be sold for its weight in silver, can be liable to objection as encouraging the consumption of the article. Whether this revenue, of between four and five millions storling, should be levied as it is at present in Bengal (though not in Bombay) by a Government monopoly or in the more usual form of an excise duty, is a question of detail on which opinions differ, and which is open to consideration. The former mode has hitherto been retained, under the bolief that the unestricted production and sale of the article would give such facilities to smuggling, as would render the

realization of anything like the present amount of revenue impossible. It might, however, be practicable —though this is doubtful—to maintain the price in the foreign market by restrictions on exportation; but it is matter for serious consideration whether any system involving the free cultivation of the poppy, would not expose India itself, which has hitherto been comparatively free from this kind of hurtful indulgence, to beflooded with the article at a low price.

The third item, in point of amounts, of the revenue of India, is that from salt. This is the only considerable tax existing in India which it can be regarded as objectionable in principle, and the entire abandonment of which, if financially practicablie, would be a benefit to the people at large. It is imm possible, in I owever, to look upon this impost in the same light in which it would deserve to be considered if it were revied in addition to other heavy burthens. We must bear in mind, in extenuation of the objections to a tax on salt, that it is, speaking generally, the only tax ' which the labouring ryot of India pays.

The revenue from salt is commonly said to be obtained by means of a monopoly. This, however (as will be seen by the appended note*), is strictly trae only of the Madias Presidency; and even there the monopoly is of a very qualified description, since the importation of the commodity is free, subject to a duty considered equivalent to the profit charged by Government on the salt produced by it. In the Bombay territory there never has been a monopoly, or even a Government manufacture. There is an excise duty, imposed to compensate for other more objectionable taxes, yielding a far greater amount of revenue, which have been abolished. The Government of India, in 1844, fixed this excise duty at one uppee per maund of 823 lbs.; but before this rate had come into operation, it was reduced by the Court of Directors to twelve annas (three-fourths of a supee). In the same year, and for a similar reason—namely, to compensate for other taxes then abolished---the Government of India fixed the solling price of the monopoly salt in the Madras Presidency, at one and a half rupees per maund; but the Court of Directors immediately reduced it to one rupee. In Bengal, up to 1836, there was a real mono-In that year, in anticipation of the subsequent poly. recommendation of a Committee of the House of Commony, the Bengal system was fundamentally modified. The present system is, to ascertain the actual cost to Government of all descriptions of salt * See Appendix (D).

manufactured at the Government works, and to issue it to dealers in any quantity applied for, at a price equal to the cost with the addition of a fixed duty. Importation is free, subject to the payment of the same duty. The duty has been gradually lowered from three sicca rupees per maund (equivalent to $3\frac{1}{4}$ Company's ruppes) to $2\frac{1}{2}$ Company's ruppes (about three farthings per pound); while the Madras duty is only $\frac{\pi}{4}$ of a super, and the Bombay only $\frac{\pi}{4}$ (less than a faithing per pound). The reduction in Bengal, not having been attended with the hoped-for increase of consumption, has not been carried further. Even if the revenue derived from salt were not required for the necessary purposes of government, it is still conceived that more good would be done to the people by retaining the tax, and exponding its proceeds in roads and works of irrigation, than could possibly be done by its remission.

Within the last three years, the manufacture of salt in the districts round Calcutta has been laid open to all who are willing to engage in it, subject to excise regulations. Very little use, however, has been made of this liberty, the quantity of salt manufactured under license having only amounted to from 20,000 to 25,000 maunds. It is hoped that the quantity will increase, and that private enterprise may in time supersede Government agency. But the small amount of response made to the enouragement held out, is a presumption that the Government arrangements for the manufacture and sale afford as marketable an article, at as low a cost, as could be produced by private manufacturers.

Jacco Jopoly shed.

The tobacco monopoly which formerly existed in the Malabar provinces of the Madras Presidency, and which yielded an annual revenue of about six lacs of rupees (£60,000), was abolished in 1852, without "equivalent: and this article is now wholly untaxed.

The customs, in India, are not a very productive source of revenue, the classes who consume any con- siderable amount of foreign productions being comparatively limited. There is no branch of taxation in which the builthens of the people have been more conspicuously lightened by the British Government. The most important taxes levied on commodities by the native Governments of India, were the inland customs, or transit duties. Every petty chief whose territory was situated on any of the great lines of commence, made use of his position to extort from traders the largest sums which they could be induced to pay. In the British territories, these duties have been entiroly abolished: in the Lower Bengal Provinces as early as the administration of Lord Cornwallis (reimposed in a modified form in 1801, and finally abolished in 1836); in the North-western Proł vinces from 1834 to 1836; in the Bombay Presidency in 1837; in Madias in 1844; and in our other possessions immediately after their acquisition. This was not a small sacrifice of lovenue. The transit duties in Madias alone yielded a net revenue of about thirty-one lacs of rupees, or £310,000 sterling. Several of the native princes have, with praiseworthy liberality, followed the example of the British Government, by abolishing, , or greatly lowering, their transit duties; and the diplomatic influence of our Government is freely used to encourage this policy. In cases in which the duties levied by some particular chief have been an obstruction to important lines of mercantile communication, and in which it was not probable that the chief would be indemnified for their loss by the increase of his other sources of revenue, our Govornment has even purchased his assent by pecuniary compensation.

Customs.

Besides these duties, the sale of goods was, under the native Governments, hampered by innumonable exactions, laid on under various pretences, most of which we have, on every occasion of coming into possession of a new territory, abolished or commuted. But some taxes on internal trade still remained even in the British territories. The last of these has been swopt away less than two years ago, by an order from the home authorities, bearing date the 5th November 1856, for the abolition of the Mohtufa, or tax on houses, trades, and professions, in the Madras Presidency. There are now no internal customs in British India, except, in some cases, town duties; and these, rot for general, but for local purposes, and as far as possible under local management; though the exertions of the Indian Governments to foster a municipal spirit, and induce the inhabitants of towns to take an active part in the management of town affairs, are only beginning, and very slowly, to be, successful. There has been similar activity in reducing the duties on the external commerce of India, and extending the principles of fice trade. In the recent acquisitions of Sind and the Punjab, the fiontier duties have been untiroly abolished, and those territories are outside our customs line. On the frontier line between the Punjab and the North-western Provinces, customs are paid on salt and sugar only. In Southern India the land tariff is the same as that on imports by sea. The discriminating duties on goods carried in foreign vessels were abolished in 1848; and in 1850 the coasting trade was thrown open to the ships of all nations. In thus abolishing the navigation laws, the Government of India preceded the Imperial Government. The three presidencies

woro formerly, in regard to commerce, treated as 'distinct settlements, and the trade between them subjected to the same duties as that between India and Great Britain. In 1848 this trade was completely thrown open, and the whole of British India ticated, for customs purposes, as one empire; and » great success has attended the efforts of the Com-"pany to obtain for the produce of native states in dependent alliance with us, the privilege of admission into the ports of the United Kingdom at the rates of duty chargeable on goods of British or gin. The duty levied on British goods imported into India is five per cent ad valorem. There is still a distinctive double *-duty on many articles imported from foreign coun*tries; and a general export duty of three per cent (from which however cotton is exempt) on the produce and manufactures of India. These are admitted defects; and the export duties were marked out by Lhe home authorities, in a despatch of 1846, to be dispensed with at the earliest period which financial considerations may permit. The post-office in India, as in England, is main- Post-office. tained more for public convenience than as a source of "aevenue. Its improvement in India has fully kept pace with that in England. Reductions of postago, and the removal of practical impediments and imperfections, may be said to have been constantly in Fogress; and the great change recently made in the post-office system of this country has been imitated, with equal success, in India. The principle of uniform postago, without reference to distance, has been adopted, and letters and newspapers are conveyed from Capo Comorin to Peshawur at the same charge as for the shortest distance. The lowest rate is lialf The annay or three farthings, for a letter a quarter of a

JUDICATURE AND LEGISLATION.

Judicial ai rangements of Lord Cornwallis.

The history of the judicial administration of British India bears a striking analogy to that of the revenue administration. It began with well-intended, but premature and ill-considered measures, which produced many evils, and but a small part of the good which then authors expected from them. When experience hud disclosed the faults of the system at first adopted, similar errors were avoided, and a better system introduced into our later acquisitions; whilepalliatives of great value, though falling short of the full exigencies of the case, were adopted in the older provinces Last came the plans, now in an advanced stage, of their progress, for effecting a complete reform.

At the period at which the judicial anange-

ments of Lord Conwallis were made, the ideas of civil judicature entertained in England still partook of an almost barbarous character. The English courts of law were still encombered with all the technicalities and disgraced by all the delay and expense, which had descended from the middle ages, or grown up in the attempt to make the institutions of the middle ages suffice for the wants of modent, society; and unfortunately these courts, far from being considered defective, were looked upon as the models to be imitated in every other place, departure from which was regarded as an imperfection, in all cases to be regretted, though not always to be avoided. The Legislature, however, had recognized that forms of procedure more simple and expeditions might possibly be necessary in India; and power had been given to

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the judges of Her Majesty's Supreme Court to modify the procedure of that court, so as to meet the exigency: but the power was never acted on. It is, therefore, not surprising that Lord Cornwallis's courts were greatly infected (though in a far less degree than the courts in England then were) with technicalities of procedure, calculated both to defeat justice, and to obstruct the access to it by needless delay and But the airangements had a still more expense. fatal defect: the judicial establishment was totally inadequate to the wants of the country. The attempt to administer justice (except in the most trifling cases) wholly by European agency, made it impossible to defray the expense of the number of courts necessary to render justice accessible: and if the benefits of judicature were to be afforded at all to the mass of the people, the intrusting, under proper securities, of the greatest portion of it to native functionaries, was not a question of expediency, but of necessity. The creation of native courts of justice, and (as the experiment succeeded) the progressive extension of their powers, has been the greatest practical improvement made in the administration of justice in our older provinces during the last and present gene-The foundation for the present extensive nation. employment of uncovenanted and native agency in the judicial department, was laid by the administration of Lord William Bentinck in 1831. At present, in the Bengal and Bombay presidencies, the entire original jurisdiction in civil suits is in the hands of the nativo judges, the covenanted Europeans being only judges of appeal; and the same thing is true of the Madras Presidency, in regard to all suits below the value of 10,000 rupees. The employment of uncovenanted agoncy has also been greatly extended in the adminis-

Subseque Improve ments. tration of criminal justice, and in the revenue department. Deputy magistrates (in some instances oxercising judicial powers equal to those of the district magistrate) and deputy collectors, discharge important functions, and afford material assistance to the head authorities of the district. Most of these are natives, and some of them natives of high rank and influence.

The movement towards reform in legal affairs generally, also dates from the administration of Lord William Bentinck. At Bombay, indeed, the Regulations of Government, comprising the penal law and the law of procedure actually in force, and as much of the civil law as had been introduced by our own Government, had already, under Mr. Elphinstone's administration, been consolidated into what is called the Bombay Code. But it was on the recommendation of Lord William Bentinck's Government that, by the Act of 1833, the present ample legislative powers for all India were conferred on the Governor-General

in Council; a baristoi appointed from England being added to the Council, for the express purpose of aiding the Government in its legislative functions. By the Act of 1853, the Legislative Council was further enlarged by the addition of the Chief Justice and one puisne judge of her Majesty's Supreme Court, two members representing Madias and Bombay, and selected by those Governments, and two representing Bengal ard the North-western Provinces, and appointed by the Lieutenant-Governois; to whem the Governor-General has the power of adding two other civil servants of Government, selected at his discretion. The Legislative Council now holds its sittings in public, and its debates are regularly reported and published.

Since the first institution of the Legislative Council, few years have passed in which there have not been one of two legislative measures for the improvement of the procedure of the civil courts. The object of some has been to facilitate the progress of suits through their various stages; of others, to secure the conject recording of the judgment, by prescribing that it shall be made by the judge himself; of others, to insure a more speedy and certain execution of judgments; of others, to render more efficient the systems of regular and special appeals. Legislative measures have also been taken for reforming the law of evidence; for the abolition of Persian as the language of record; and for putting the office of native pleader on a more efficient and respectable footing. The defects of the criminal courts have likewise largely engaged the attention of the Legislature, and much has been done for their improvement. But notwithstanding these partial amendments, it cannot be said that the courts, in what are called the Regulation Provinces, have yet been freed from their radical defects. The principal impediments to a good administration of justice, are the complicated and technical system of pleading in the civil courts, and in the eliminal courts the character of the police. By the Act of 1833, a Law Commission was appointed to sit in Calcutta, and inquire into the jurisdiction and procedure of the courts of justice and police establishments, and into the operation of the laws, civil and criminal. The declared purpose of Parliament in creating the Law Commission, as well as in the new constitution given at the same time to the Legislative Council, was to facilitate measures for bringing Europeans and natives under the same courts of justico, civil and criminal. The machinery constructed

The New Code

D

for this purpose has been employed to lay the foundation for correcting all the principal defects of the laws and of the tribunals. The Commission prepared a penal code of great merit, and made many reports full of valuable suggestions on other branches of legal administration, some of which have been acted on. But it was important that any new system, before being brought into practical effect, should be well understood by those who would have to apply it, and should be approved by those whose authority would earry the greatest weight. Opinion could not be expected to upen all at once on so great a subject as the reconstruction of the legal and judicial system of a vast country; and the suggestions of the Law Commissioners, being referred to various authorities, elicited great varieties of judgment. By the Act of 1853, a Commission was appointed to sit in London, for considering and reporting on the recommendations of the Indian Law Commissioners. The wants of India as to codes, both of substantive law and of procedure, civil and criminal, have been fully considered by the Commissioners so appointed. They have recorded a strong recommendation in favour of the preparation of a code of civil law for India; and they have prepared complete codes of civil and eximinal procedure, grounded on a rare combination of appropriate local knowledge with the matured views of enlightened jurists. These codes, together with the penal code passed by the earlier commission, are in progress through the Logislative Council of India, and would probably by this time have been law, but for the calamitous events by which the attention of all Indian authorities has of late been engrossed.

These codes, when enacted, will constitute the

most thorough reform probably ever you made in the judicial administration of a country. The code of civil procedure entirely sweeps away the present cumbersome and complicated system of pleading, and substitutes the viva voce examination of the parties; and in all other respects, as compared with the previous practice, it is of great simplicity, and eminently fiee from delay and expense. As Mi. Colvin, the Lioutonant-Governor of the North-western Provinces, observed in his last general report, "It is not alone, " as the Lieutenant-Governor apprehends, that by the "new code of procedure, the practice of the courts " will be made more simple and rapid, and the costs " of a suit be diminished; it is because, as he hopes, "the judges will be brought much more frequently "into direct communication with the parties in suits "and their witnesses, without any intervention of "agents or pleaders, that he looks to the public be-" coming satisfied that the courts are to be trusted as "a means for obtaining substantial justice, and not " dreaded as an engine capable of being leadily per-" verted to the working of flaud and wrong under the "forms of law. It is not, he fears, to be denied that " low classes of practitioners and unscrupulous habits "of chicane have grown up ibout our courts, with " their old complex and artificial pleadings and rules: " and this being the case, it cannot be matter of sur-' ' mise that among a population so generally ignorant " and helpless, discredit and dislike should have exten-"sively attached to our judicial institutions." Under the new code, if not materially altered by the Legislative Council, India is likely to possess, so far as judicial institutions can secure that blossing, as good and as accessible an administration of civil justice, as) the lights of the age are capable of conferring on it.

ulicial stem of Nonulation vinces It was only the Regulation Provinces which stood 'n need of such a reform; on the Non-regulation Provinces have 1 ad (generally from the'r first accuisition) the benefit of a cheap, accessible, and expeditions administration of just ee, free from all such formalities and technicalities as a their de catjustice, or add reedlessly to the difficulty and expense of obtaining it. The following me the terms in which the eminerit Sin John Lawrence, in his last general report, describes the judicial system of the Puniab, which the other recently-acquired territories, is well as into our older possessions of Sangor and Bundeleund :----

"In former reports it has been shown how the " system of civil judicature in the Punjab has been "founded and crected; how that no offort has been " spared to render justice cheap, quick, sure, simple, " and substantial; how every other consideration has " been rendered subordinate to these cardinal points. "We are, indeed, without elaborate laws, but we have " brief rules, explaining, in an accessible form, the "main provisions of the several systems of native law " on such matters as inheritance, marriage, adoption, "testamentary or other disposition of property; and " setting forth the chief principles to be observed in "other branches of law; such as contracts, sale, mort-"gage, debt, commercial usage. Wo have the most "open and liberal provisions for the admission of "evidence. We have complete arrangements for "reference to arbitistion, and for the ascertainment " of local custom. We have a procedure, without any " pretension to technical exactitudo; but a procedure " which provides for the litigants and their respective "witnesses being confronted in open court, for a " decision being arrived at immediately after this brief

" forensic controversy, and for judgment being deli-"vered to the parties then and there. We have a " method of executing decrees, which, while it allow-" no door to be opened for evasion or delay on the " part of defendant, and thus renders a decree really "valuable to plaintiff, as being capable of ready " enforcement, and gives hun his right free from lien, " encumbrance, or doubt; yet, on the other hand, " prevents the defendant from being hastily dealt w th, " or from being placed at the mercy of his creditor. "We have Small-cause Courts scattered all over the " country, and several regular courts at every central " station; so that everywhere justice is near. Our " civil system may appear rough and ready; whether "it would be suited to other provinces, in a dif-"forent stage of civilization and with a different "machinery at command, may be a question; but in "the Punjab it attains the broad and plain object

" aimed at, and without doubt gives satisfaction to " the people.

"But in order to regulate the administration of "justice, a complete system of reporting has been "established. Month by month, the reports of every "court are transmitted to the judicial department at "head-quarters, and are there criticised. At the close "of each year, these reports, and the figures embodied "in them, are collated, averages are struck, division is "compared with division, and district with district, "and the general result, with a brief critique by supe-"rior authority, indicating the defects to be avoided "and the reforms to be omulated, is published for the "information of all officers concorned. It is believed "that many improvements in the working of the "courts are traceable to this system. Every court "works under a constant sense of supervision, and " with the great objects to be aimed at perpetually in " view, and standing out in strong relief.

" In respect of speed, the average duration of a suit " in 1854 was twenty-oight days, and in 1855 twenty-"thee days. This average has been becoming land-" ably lower year after year; it is now nearly as low " as it can be, consistently with due inquiry and deli-" botation; and as the above average includes all " those cases which for any special cause may be pro-" tracted, it is evident that the trial of most suits can " only extend over a very few days. In respect to " cheapness, the cost avorages only 5r. 0a. 1p. per cent " on value of suits during 1854, and 4r. 13a. 3p. per " cent during 1855. As a proof of the entire " absence of technicalities, it is to be observed that " only 5.19 per cent of the suits were nonsuited " during 1854 and 542 per cent during 1855. The " small number of nonsuits which are ordered are " probably real and honest ones." In the course of the last few years the system of iscipline. prison discipline in India has undergone a complete and most salutary revolution. The origin of this reform may be dated from the report of a committee appointed in Calcutta in 1838, composed chiefly of the principal members and secretary of the Indian Law Commission. Up to this time, those inmates of jails who χ were under sentence of labour, were employed almost exclusively (in fetters) on the roads: which rendered prison discipline almost impossible, as the prisoners could nearly always, by the connivance of their guards, command intercourse with friends and relations; and the ergineer officers, in their anxiety to obtain efficient work, fed them highly, and treated them in other * respects with an indulgence entirely inconsistent with

Prison

the purposes of punishment. At the same time, the montality from exposure and unhealthy localities was great. The committee showed that the State were absolute losers by employing convict labour on the roads; that it would be a positive say ng to keep them in idloness in the jails, as the cost of extra superintendence and guards considerably exceeded the expense at which the work they did could be executed by hned Since this time out-door convict labour has labour. been abandoned, and the prisoners are employed within the jails in various manufactures; and this employment, which commenced in 1843, has every year become more profitable, until, in 1855-56, the profit in the fifty-five jails of the Lower Provinces of Bengal reached the large sum of Rs. 1,11,582 (£11,000). This profit now forms a fund for the execution of the public works formerly performed by the convicts themselves. The jail manufactures, too, are of such improved quality, that some of them have acquired a high character in foleign markets; and public exhibitions of thom are now held in the Town Hall of Calentta, Prisoners sentenced for long terms of years are now isomoved to large central jails; and the change has been attended with great improvement in general management and discipline. There is an inspector of jails for each presidency and sub-presidency. These officers are most active in discovering and correcting defects, and increasing the effectiveness of the jails, both as reformatories and as places of punishment. The reform of the police of India is not yet in so advanced a state; but the present disturbances found the authorities in the very criss of their delibenations on the subject. The police has hitherto remained the most faulty part of our system in India, and it is the part which it is by far the most difficult

to reform effectually. The poculiar difficulty of administering criminal justice in India arises from the character and habits of the people. In most countries, the voluntary and active co-operation of the people may be looked for in bringing criminals to justice. In India, 1 ather than incur the trouble and annoyance of appearing as a prosecutor or as a witness, a man will even for swear himself to screen the man who has tobbed him. The injury he-has suffered is looked upon as the decree of destiny, and he has no disposition to add to the inconvenience by incurring exertion and expense, and perhaps exposing himself to the further vengeance of the criminal. Among such a people there is only the police who can be looked to for bringing criminals to justice. The great powers which must be intrusted to the police of such a country, and that police necessarily composed principally of natives, give rise, when combined with the passive and slavish character of the people of many parts of India (espe-

cally of Bengal), to evils with which the Government has hither to struggled with very imperfect success.

The police of India, up to a very recent date, consisted of native establishments, under the control and orders of the European magistrate. Each zillah, or judicial district, is formed into subdivisions (more or fewer, according to the size of the district) each of which is under the charge of a local stipendiary police, consisting of a head native officer and his subordinate elerks sorgeants, and constables. The native police in the Bengal Presidency is (with the partial exception of the tehsildars in the North-western Provinces) separate from the body of revenue officers. In the Presidency of Madias, the same officers discharge both revenue and police functions ; and, until recently, this was also the case at Bombay.
The recognized defects of the system are, the low late of pay, and the consequent infeliority of the class of men who enter the police, and also the disproportion of the strength of the force to the density of the population, and to the extent of country committed to their charge. With a view to the correction of these evils in Bengal, higher grades of subdivisional police officers have of late years been created, and their pay has been increased. Deputy magistrates have also been appointed, and invested with the judicial and police charge of subdivisions. The former measure has been productive of some good, by inducing a more trustworthy class to enter the service ; the latter has not yet been carried to a sufficient extent to effect any practical improvement of a general character.

The state of the police of the North-western Provinces had deeply engaged the attention of the late Lieutenant-Governor, the lamented Mr. Colvin. That "distinguished functionary conducted, through the district commissioners, a general revision of the local police establishments; reducing the number of officers in some of the districts, but increasing the salaries, and holding out the sure prospect of promotion as the reward of good conduct and efficient service. These measures were the bost that could be adopted with the then available materials; but they did not at all touch the essential constitution of the police. With Fregard to the village police, the ancient and indigenous police of the country; in the North-western Provinces, its proper maintenance by the villages themselves is provided for by the conditions of the sottlement. In the Lower Provinces, the terms of the permanent settlement have unfortunately deprived the Government of the power of enforcing this obligation. An Act has, however, been passed for the maintenance

of a 1 inproved city police, by an assessment on the occupions of Louses; and this plan has been introduced into several large cities and towns.

It is in the Bombay Presidency that the greatest improvements have been actually effected in police administration. The measures for this purpose were commenced under Sn. George Clerk's administration, in 1848. Undor the new system, revenue and police functions have ceased to be combined in the same native officers. The powers of punishment proviously exercised by police officers have been taken away. To each district has been appointed a European superintendent of police (either a military or an uncovenanted officer), under whose command the police force of the district, both village and stipendary, is placed, and who exercises the functions of an assistant to the magistrate in his police duties. This functionary, again, has the aid, in each subdivision; under his orders, of an officer called joint police! amildar, who has the more immediate charge of the preservation of the public peace, and the preliminary invostigation into crimes of a serious nature. Active measures have been set on foot for reorganizing the villago polico, by ascortaining the assignments formonly made in lands and money for the purpose, and requiring that the duties for which these assignments were the remuneration, be really performed. They general control and direction of the police of the whole presidency, except the island of Bombay, is concentrated in one chief officer, under the title of Commissioner of Police. These measures are believed to be aheady effecting a great improvement in the police of the presidency.

In the Punjab, a police system had to be, now reformed, but created; and this task has been fulfilled "with the same efficiency with which every other part of the administration of that territory has been organized. As the Punjab police may not improbably form a model for other parts of Ind a, it is well to note the general features of its constitution.

The police establishments consist of two parts; when preventive police with a military organization, and the detective with a civil organization.

The preventive police consists of foot and horse; each regiment has its own native commandant, and the whole force is superintended by four European officers. Both aims of the service are regularly aimed 'and equipped, and are ready at a moment's notice to reinforce the civil police.

The civil police consists, first, of a regular establishment, paid by the State ; secondly, of the city watchmen, paid from a fund raised by the levy of town suties; and, thirdly, of the village police, nominated by the landholders, confirmed in their offices by the inagistiate, and paid by the villagers. The infantry of the military proventive police furnish guards for jails, treasuries, frontier posts, and 'vity gates, and oscorts for treasure. The cavalry are posted in detachments at the civil staticns; and smaller parties, stationed at convenient intervals along the grand lines of road, serve as mounted patrols. The 'general duties of the civil police consist in reporting brimes, tracking and arresting criminals, and procuring evidence against them. The police of the Punjab have been eminently successful in repressing crimes of a violent nature, in "breaking up gangs of murderors and robbers, and in bringing criminals to justice; and in no part of India as the authority of the Government more thoroughly respected than in the Punjab.

In 1856, the Court of Directors, in a despatel ϕ which has been laid before Parliament, discussed at some length the defects of the police of India, and the means available for their correction, and proposed for the consideration of the Government of India a plan of thereogen command, unity of action through -/ out the country, and complete separation between revenue and police duties.

This plan has undergone careful deliberation from the Government of India. The various members of that Government, and the Lieutenant-Governor of Bengal, have individually recorded their sentiments, in minutes characterized by a frank recognition of existing defects, an earnest desire of improvement, a remarkable amount of knowledge and understanding of the subject, and great ability in the statement and discussion of the merits and 'defects of the various plans advocated. For the present, so far as logarde the Bengul Presidency (including the North-western Provinces), the recommondations of the Government of India are limited to a better choice and ampler remuneration of the native police, and to the aiding, and strengthening them, in cortain localities, by police corps of a semi-military character. These measures have been sanctioned; and until their effect has been tued, the Court of Directors have consented to put in* abeyance the more fundamental changes which they had recommended. But authority has at the same time been given to the Government of India, should 4 the present state of the country in their opinion) render it expedient, to organize the police of Bengal on the model of that of the Punjab.

In the Madras Presidency, the opinion of the local Government was favourable to the Court's original , views; and in September last authority was finally given to that Government for the thorough reorganization of the police system. The leading features of the scheme which has been sanctioned are as follows :---

> The appointment of a chief commissionel of police for the whole presidency, in whom will be vested, in direct communication with the Chief Secretary to Government, the direction, discipline, and internal economy of the police force;

> The appointment in each district of a Emopean deputy commissioner of police, with a sufficient number of subordinate officers and peons or constables;

> The entire separation of the police from all connection with the revenue branch of administration, and of the magistrate (who will now be a purely judicial officer) from the properly police duty of the prevention and detection of crime;

And, finally, measures for reorganizing, and, it may almost be said, reviving, the village police, which, from its close connection with the localities, must necessarily constitute the last (and a most important) link in any police system really efficient, or willingly supported by the people. The imperfections of the general police of India Thuggee and have not prevented some results from being attained Dacoitee in the way of suppression of crime, sufficiently re- Suppression. markable to have attracted an amount of European notice soldom accorded to Indian affairs. The most memorable of these is the suppression of the Thugs. This singular association, which, though recruited from Il castes, and even from Mussulmans, was held togother by a religious tie, and a common worship of the Lindoo goddess of destruction, infested all the roads if India; and from their universal practice of murder-

ing all they robbed, it was not only almost impossible to obtain evidence for their conviction, but the extent of their crimes was greatly undertated, and their very existence in many parts of India, disbelieved in. Λ soparate police was organized specially against them. The gangs were bloken up in the only manner in which this could possibly have been effected-by encouraging some of them to denounce the rest. From the nariatives of these approvers, taken separately from one another and with the utmost precautions against the possibility of concert, lists of all the Thugs in India were obtained, and the particulars of the crimes committed by each. These were then traced to their haunts, identified, tried, and convicted, on the evidence of their accomplices, confirmed by the finding of bod cs, the identification of property, or other comobolative evidence. Many suffered death, a much greater number transportation for life, and, in a few years from the commencement of the operations, all India was cleared of these criminals. The pardoned accomplices remain under surveillance at Jubbulpore, in Contral India, where they and the children of the captured Thugs have been taught several useful, branches of manufacture. The Jubbulpore School of Industry now supplies to Government and the public many valuable carpets and linen cloths, and a great proportion of all the tents used in India. When the work of the Thuggee Suppression Department was nearly completed as far as regarded the Thugs, its operations were extended to the still, more prevalent crime of dacoity, or robbery and bur, glary on a large scale by organized gangs of professional banditti. The mode of breaking up the gangs by means of approvers, which had been so successful against the Thugs, has been put in practice with equal

success against dacoits; and this or me, so far as it 'was perpetrated by large associations ranging over a wide extent of country, has now been almost as completely rooted out as Thuggee. Dacoitee had been almost entirely suppressed in the North-western Provinces and in Bombay, before the occurrence of the recent disastors. In the Lower Provinces of Rengal the crime has been greatly reduced within the last three or four years. In seven large districts surrounding Calcutta, where it was lamentably prevalent, the number of dacoitees has been progressively reduced from 524 in 1851, to 111 in 1855. In some of the districts of the Madras Presidency, dacoitees to f a local character, by small gangs, to which the approver system is not equally applicable, are still frequent; but the improvement in the police, and other measures in contemplation, will, it is hoped, peedily reduce their number. The piracies which formerly made the naviga- Suppression of Phacy. tion of the Alabian seas unsafe for commerce, have been so effectually suppressed by the East-India Company's cruisers, that there is now hardly any part of the world in which trading vessels are more secure against depredation. The formerly piratical tribes have been bound by engagements to abstam not only from phacy, but from maritime war, which affords opportunities and pretexts for piracy: and, for the first time probably in history, a perpotual peace, guaranteed by treaties and enforced by superior navalistrength, leigns in the Persian Gulf. Equal vigour has been displayed against many Infanticide. parbarous usages of the natives. Special measures have been carried on during a long series of years for the suppression of female infanticide, a crime which Ind become a positive custom among several of the

higher castes in various parts of India, from motives, not of religion, but of family puide. The co-operation^f of the native punces has been urgently invited, and to a great extent obtained, for the suppression of this mactico. In the places, and among the castes, in which the practice was ascertained to exist, means were taken to obtain an annual census of female children. A report of all births, of all deaths of iinfants, and of the causes of deaths, was required, under stringent regulations and penalties. Engagements were taken from the influential persons of the castes to preserve their own children, and to aid in enforcing the same conduct on others. IIonorary rewards and marks of distinction have been conferred on chiefs' and others who have exerted themselves for the promotion of the object. By great efforts of persuasion and address, the heads of castes and tribes have been prevailed on to agree to a limitation of that favorite sub; ject of vanity, marriage expenses; and grants of money

- are regularly made to poor persons of the castes, in aid of the marriages of their daughters. These efforts have been rewarded by a continual diminution of the number of infanticides, evidenced by a constant in-, crease in the number of females in existence, of the formerly delinquent castes.
- Suitee. Suitee, or the voluntary burning of widows on the functal prices of their husbands, after having been long discouraged by every means short of positive prohibition, was finally made a criminal offence in all who abotted it, by a logislative Act of Lord W. Bentinek's administration, and has now entirely ceased in the provinces subject to British administration. Unrefmitting efforts have been used to induce the native princes to follow the example, and have been at last successful with all of them except one, the Maharana

of Odeypore, the representative of the oldest and proudest dynasty in India: and this prince professes himself willing to abolish the rite, when the cessation of existing differences between himself and his feudatory chiefs shall enable him to obtain their concurrence in the measure. Various other modes of self-immolation practised in India,—by drowning, burying alive, or starvation,—have been, with equal success, prohibited and suppressed.

The pretence of supernatural powers was a Witcheraft source of great evil in India, not only as a means of extortion and intimidation, but also by the numerous mulders perpetrated on persons suspected of plactising on the lives or health of others by magical arts. These acts of fancied retaliation have been, with a gentle but powerful hand, repressed, and great progress has been made towards their extinction. The faudulent pretence is now punished as a substantive erime. The insecurity of rights, and the imperfection Tragga. of the tribunals, under the native Governments, had introduced, on the part of those who were, or believed themselves to be, injured, a singular mode of extorting They hilled a person of one of the religious redress. classes to threaten that unless the demand, whatever it might be, was complied with, he would kill or wound himself or some one else; thereby, it was supposed, entailing the guilt of murder or of wounding on the person whose alleged injustice was the original cause of the act. If the threat proved ineffectual, the honour of the threatener was engaged to carry it into plactical effect; and many suicides or muldels were committed from this cause. This barbarous practice, known by the name of Tragga, has been almost entiroly suppressed, partly by penal laws, and partly

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by affording more legitimate means of enforcing just $\frac{1}{11}$ claims.

Metiah Saci fices

Among the barbarous tubes who occupy the hill tracts of Oussi, on the south-west frontier of Bongal, human sacrifices prevailed until a very recent period. By a well-dovised and judicious sories of coneiliatory measures, worthy of a more lengthened record \uparrow than can be given to them in this place, the extinction of this enormity has been effected.

After a full consideration of the subject of Abolition of slavery in India, by the Indian Law Commissioners Slavery and by the Government of India, an Act was passed in 1843, which entirely abolished slavery as a legal status. The courts of justice are forbidden to recognize it; no fugitive, claimed as a slave, can be forcibly restored; and every act which would be an offence if done to a free person, is now equally an offence when done to the persons formerly considered slaves.

Tet Begaice, or Forced Labout.

Civil Rights of Religious Converts.

One of the most oppressive of the burthons on * the agricultural and labouring classes under the native Governments, was compulsory labour, not only for the repan of roads where any existed, but for the purpose of carrying the abundant baggingo of Government officets or powerful individuals when journoying from one place to another. This practice has been abolished. The last vestige of it, in a licensed form, is believed to have been in the construction of the Thibet read 4 through the Himalaya Mountains, and orders have \$ recently been issued for its discontinuance there.

By an Act passed in 1850, the principle already 🗼 laid down in a Bongal Regulation of 1832, that change of religion should not involve loss of property 4 or civil rights, was extended to the whole of the territories subject to the British Government of Indiand The religious and civil laws of the Hindoos have in

this point been completely set aside; and converts to Christianity have been shielded, as far as law can shield them, against temporal ill consequences from their change of faith.

By an Act passed in 1856, another great inicad has been made on Hindoo prejudices, by legalizing the re-mairiage of widows.

An Act passed in 1840 gave effect to instructions issued by the home authorities in 1833, on the subject of pilgrim taxes, and the superintendence of native festivals. The instructions directed that the interference of British functionaries in the interior management of native temples, in the customs, habits, and religious proceedings of their priests and attendants, in the arrangement of their ceremonies, rites, and festivals, and generally in the conduct of then interior economy, should cease; that the pilgrim tax should everywlere be abolished; and that in all matters relating to their temples, their worship, their festivals, their religious practices, and their ceremonial observances, our native subjects be left entirely to themselves. Property held in trust for religious uses of course cannot be diverted from them by any act of the Government; but if such trusts are infringed, rodress must be sought, as in all other cases, from the tri-In 1841 the home authorities sent out bunals. "further instructions, that no troops or military bands of music be called out, and no salutes fired, in honou of native festivals; and all such acts have since been regarded as strictly prohibited When any case of infiingen ent of these principles is found to have been overlooked, it is, on being brought to notice, immediately corrected.

- Re-marria of Widows, Discont'nuance o Connection w th the Religious Celemonic of the Natues. *

IMPROVEMENT OF THE COUNTRY BY PUBLIC WORKS.

The measures which have now been briefly described, for fixing and moderating the domands of Government on the tax-paying population, and securing to every one the full enjoyment of the fruits of his industry, are in themselves the most effectual means which could have been adopted for improving the productive resources of the country. In a country like India, however, the direct aid of Government to industry is required, for a variety of purposes which, in more advanced countries, are sufficiently, and even better, provided for by private enterprise. The principal of these are, irrigation, and the means of communication by loads and canals. The British Government in India has frequently been charged with niggardliness in incurring expense for these purposes. There was some, at least apparent, ground for the charge, in former generations; though even thon, the truth fell far short of the current representations. It is often asserted that the country is covered with the remains of tanks and other works of irrigation, which the native inless constructed, and which the British Government has allowed to decay. The fact is overlooked, that most of these were already in a state of decay before the country came into our possession; long periods of disorder and military devastation having destroyed the funds which should have repaired them, and the security which would have admitted of their 1 opair. Many works which are supposed to have fallen into decay, never were completed :

Irrigation Works. many were allowed to decay by the native sovereigns; for it was only occasionally that a prince, of unusual talents and vigilant economy, had funds to spare for such purposes; and the same prince who would commence new works with which his own name was to be connected, would often neglect to keep up those of his predecessors. Whether it is a just subject of censure, that the restoration of these old works was not commenced earlier, is a question depending on many and various considerations; but the activity in this department for many years past has been exemplary.

The Western and Eastern Jumna canals were of ancient construction, but had fallen into disrepair and become useless to the country, until again brought into activity by the labours of the Company's officers at a sufficiently early date to admit of a full estimation of the benefits which the country has reaped from their restolation. The main line of the Western Jumna Canal is in length 445 miles. In the famine year, 1837-38, the gross value of the crops saved by the water of this canal was estimated at £1,462,800; of which about one-tenth was paid to Government as land and water rent; while the remainder supported, during a year of devastating famine in other districts, the inhabitants of nearly 500 villages. The works originally projected for the restoration of the Eastern Jumna Canal were completed in 1830; but considerable improvements have been effected since that date at a large expense. In 1853, the Court of Directors sanctioned an expenditure of $\pounds 15,276$ for improving this canal, so as to economize \cdot the water, facilitate its distribution, and correct the malatious state of the country on its banks. It is stated, that on the 1st of May, 1852, the clear profit to Government on this canal had been £9,759.

Jumna Canals, Up to 1847-48, the expenditure incurred on these and some minor works in the North-western Provinces had amounted to about $\pounds 557,000$, while the amount nece ved in direct canal nevenue was in all $\pounds 546,000$. The quantity of land brought under the influence of irrigation was 1,300,000 acres, yielding produce of the annual value of $\pounds 2,500,000$, and supporting a population of 600,000 souls.

Ganges Canal.

The history of the Gauges Canal, the greatest work of irrigation over constructed, belongs to a more recent period. The employment of the water of the Ganges for inigation purposes appears to have been first contemplated by Colonel Colvin, who, on delivering charge of his office of superintendent of canals to his successor, the present Sir Proby Cautley, recommended the project to his consideration. Colonel Cautley carefully examined the country through which the canal would pass, and the scheme was, in 1841, brought under the consideration of the home authointies, who gave it their condial support, subject to a further examination of the project by a committee of engineer officers. The committee's report was favourable; but various difficulties intervened, and the work cannot be said to have been fairly commenced, on a scale commensurate with its importance, till the year 1848. The total length of the Ganges Canal and its branches, when completed, will be 8984 miles, and it will furnish abundant irrigation for an area of 4,500,000 The canal, in the words of the Lieutonantacies. Governor of the North-western Provinces, "presents " a system of irrigation unequalled in vastness through-"out the world; while the dimensions of the main " channel, and the stupendous works of masonry which " occur in its course, more particularly in the section

" between Roorkee and Hurdwar, render the work " eminently one of national distinction and honour." The amount expended on it up to the 1st of May 1856, had reached the sum of £1,560,000; and when completed, the total cost will fall little short of $\pounds 2,000,000$. The canal has but just begun to be brought into operation; but it is est mated by Colonel Baird Smith, the director, that the annual produce of the land already watered by it is of the value of from full operation, the value will ultimately reach the enormous sum of $\pounds7,000,000$.

On the 30th April, 1856, the canal had been carried so far that the water flowed continuously through 4494 miles of the main trunk and terminal branches. The extent of main channels of distribution (1. ajbuhas) completed, was $435\frac{1}{2}$ miles, and 817 miles more were in active progress.

The canal is fitted also for purposes of navigation, but it has not yet been made available to the public for this purpose, although extensively used by the Government for the transport of materials. Colonel Baird Smith states that the canal closes its first year of work (1855-56) with an aggregate revenue, from all sources, of 1ather more than Rs. 60,000, having watered during the year about 55,000 acres of land, and having placed beyond the risk of serious damage from drought, an area of cultivation extending over about 166,000 acres, distributed among 1,134 villages.

In the Punjab, the canals are of two kinds, inundation canals and permanent canals. The inundation canals are cuts from the rivers, which are empty during the winter, because the water is not then high enough to enter them; but as the water rises in the spring, from the melting of the snows, these channels

Punjab Canals.

fill, and remain full until late in autumn. The fertility of the South-western Punjab mainly depends on these canals, and in a former ago they appear to have been conducted from all the rivers; their course being traceable by the ruins not only of villages but of cities and public buildings, which depended for existence on their feitilizing influence. Such of these canals as were found in working order at the annexation, have been maintained, improved, and enlarged; and plans and estimates have been formed for the restolation of others. As yet, however, the greater part of the funds which could be spared for the purpose, have been devoted to the construction and improvement of permanent canals. In 1849, the enlargement and extension of the Huslee Canal, stated to be capable of irrigating 70,000 begahs of land, was sanctioned, and it is now in good working order. But this will ultimately be superseded by the Baree Doab Canal for irrigation and navigation. The length of this new work is about 450 miles; the original estimate of the cost was £530,000; but more extensive works than were at first expected having been found necessary, and the rates of labour having proved much dearer than those calculated, the ultimate cost will fall little short of a million sterling. In May 1856, more than 325 miles had been excavated; and it was hoped that the canal would be opened in 1859. The expected leturn is 12 lacs of lupees, or £120,000 per annum. The cultivation of the province of Sind is Sind Canals. dependent on the rise of the river Indus, whose waters are d stributed over the face of the country by a network of canals of greater or smaller dimen-About two and a half lacs (£25,000) are-510**NS**. annually expended in clearing these canals from the

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deposits of silt left in them by the recoding waters. The principal works which have received special sanction, are the widening and deepening of the Begaree Canal in Upper Sind, at a cost of £13,000 (expected return £11,900 per annum), and the improvement and extension of the Foolalie Canal, at , a cost of $\pounds 15,083$.

In the Madias Presidency, the means of artificial irrigation are chiefly obtained by the construction of tanks or reservoirs for preserving the monsoon tains, and storing them up for use in the dry season, and of "anicuts," or dams across the bods of rivers, by which the waters are maintained at a level higher than that of the country, in order to be from thence conducted over its surface. Of the latter class of works, the most worthy of notice are those which have been constructed on the Coleroon, the Godavery, , and the Kistna.

Coleroon Works.

The commencement of the Coleroon works is ~said to be traceable to the second century of our era. Imperfectly executed in the first instance, they were found, when the country came into our possession in 1801, to be very defective; and notwithstanding the remedial measures adopted, the bed of the river continued to rise, from the deposit of silt; the extent of land which the means of irrigation could reach, diminished; the rovenue fell off, and the condition of the people was gradually deteriorating. This state of things appears to have reached its acmo about 1829-30. Plans and estimates were then framed, and from 1836 the work was regularly and vigorously prosecuted. The total expenditure on the Upper and Lower Coleroon anicuts, up to their complotion, amounted, as far as can be ascertained, to upwards of £80,000. In addition to this sum, subsidiary works for conveying

inigation over the districts of Tanjore, and portions of Tuchnopoly and South Arcot, were constructed, at a

The average quantity of land watered annually from the Colcroon and Cauvery prior to 1836, is given at 630,613 acres. Since the improvements, the average (up to 1850) was 716,524 acres; being an increase of 85,911. The annual increase of revenue has been about £44,000; and it may be assumed that the agricultural community have benefited to the extent of at least £66,000 per annum, from the extension of the area of irrigation. It is further calculated that at least an equal amount is added to the value of the annual produce, by the better irrigation of the lands which the waters already reached.

Godavery Anicut.

An expenditure of $\pounds 47,575$ for the construction of the Godavery anicut was sanctioned in 1846. It was then anticipated that the total cost, with compound interest at 5 per cent, would be recovered in ten years, and that thenceforward a clear profit would be returned of at least £9,000 per annum. The work has, however, proved much more costly than was expected. Up to 1852, the amount expended was £130,000, and a further outlay of £110,000 was expected to be required, which, with £24,000 allowed for annual repairs during its completion, would naise the total expenditure on the works (including a system \mathcal{I} of roads and an important line of inland navigation) γ to £264,000 The amount expended has, it is stated, been already repaid by the increased receipts; and the Madras Public Works Commissioners of 1852 (to one of whom, Colonel Cotton, the merit of this important work is in a great measure due) estimate that when the works shall be in full operation, the total increase of revenue will not be less than £300,000 per annum,

cost of about £100,000.

while the gain to the people, by enabling them to cultivate the more valuable products, such as sugarcane, rice, &c., instead of the ordinary dry crops, will exceed £3,000,000 per annum.

The anicut across the Kistna liver was commenced in 1853. The original estimate of the cost was £155,000; but it is probable that this amount will be to some extent exceeded. It is intended, by 290 miles of irrigation channels distributed on both sides of the liver, to supply water sufficient for 280,000 acres of lice cultivation, or 350,000 of lice, sugar, and possibly cotton, combined. The results anticipated are, an increase of £60,000 in the revenue of Government, and a gain of £90,000 per annum to the agricultural community.

In 1854, sanction was given to an expenditure of £86,611 for the construction of an anicut across the Palar river, in North Arcot, and of the works "subsidiary to it. The expected increase of revenue was stated at £18,470 per annum, or, doducting ton per cent for repairs, £16,623. Very large sums have in the aggregate been spent in the construction of new, and still more in the repair and restoration of old, tanks and wells, both in the Madias Presidency and in the other parts of India which depend on works of that description for water supply. In some hill districts, ravines have been dammed up, and a head of water obtained for the irrigation of the adjacent valleys or plains. This was the plan of Colonel Dixon's irrigation works in Mhairwarra; and a system of such works had begun to be executed in Bundelcund, when the disturbances broke out.

Kistm A nout,

Palaı Amcut.

A disposition has been of late shown to form companies for the execution of profitable works of

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inigation, on certain conditions to be granted by the State. In September last, the Indian Governments were directed to take this subject into deliberate consideration, and to frame rules under which the aid of private companies in the construction of such works might most beneficially be employed; and readiness was expressed to give to such companies a guarantee of interest, on the same footing as railway companies.

Roads and Navigable Canals.

Next in importance to irrigation works, are the means of internal communication. Whatever may have been the degree of care bestowed by the Hindoo and Mahomedan Governments on the former object, it has not been pretended that they did anything for the latter. It was never their practice to lay out money in the construction of permanent roads, or in the formation of canals for navigation. The plains of India are traversable by carts, and even by, armies, without made roads, throughout the dry season; and neither (in general) military movements, not commercial transport, were carried on during the rains. Roads, therefore, in India, were not, as in some countries, a matter of absolute necessity; and in this respect, whatever has been done at all, has been done by the British Government. The most important line of read in India is the Giand Trunk Road from Calcutta to Delhi, through Hooghly, Burdwan, and Benales, and including either in the main line, or by means of branches, all the principal cities of the North-west Provinces. This road, 837 miles in extent, has been gradually brought to its present state of a thoroughly well-formed road, metalled and bridged, except a few of the larger rivers, which are still crossed by ferries; but over all these (it is believed), except the Ganges

Jrand Trunk Road. and the Soane, bridges are in course of construction. This road, with its continuation to Kurnal (and now to Lahore, which is in course of completion), has been divided into different portions, each under the charge of a separate engineer officer, with an establishment for the purposes of construction, or of maintenance and sprotection, as the case may be. The cost of the Grand Trunk Road as far as Delhi had been, up to the year 1848, £489,100, and the annual expense of maintaining it was then estimated at £35,000.

Since the annexation of the Punjab, a continuation of the Grand Trunk Road from Lahore to Peshawur, a distance of 275 miles, has been in progress. This road also is to be completely metalled and bridged throughout. The cost was estimated, when the work was sanctioned in 1852, at £154,848. By means of this road a direct line of communication will have been established between Calcutta and the extreme boundary of the British territory to the northwest, a distance of 1,500 miles. Besides this, many other roads in the Punjab, and among them roads from Jullundur to Lahore, and from Lahore to Mooltan, have been undertaken.

The sea has been mainly relied on for communication with Madras; but roads are now in course of formation, which will provide a line of continuous genmunication by land.

The land communication with Western India is carried on by way of the Grand Trunk Road to Benares, onward by Mirzapore and Jubbulpore to Nagpore, and thence to Bombay. The road beyond Mirzapore, under the name of the Great Decean Road, was commenced thirty years ago, but was kept up only as a fair-weather road till within the last few years, when anangements were made for its being

Gieat Decean Road. thoroughly missed, metalled, and bridged. The distance from Minzaporo to Nagpore or Kamptee, is nearly four hundred miles. Estimates amounting to £11,659 were sanctioned by the Court of Directors in 1856, for bridging the portion of road between Mirzapore and Jubbulpore, which had been already metalled; £25,084 were also sanctioned for missings and metalling the portion between Jubbulpore and Kamptee, and measures were further authorized to bridge this portion of the road.

Agia and Bombay Road.

Dacca and Chittagong Road. Another great and important line, the Agra and Bombay 10ad, 735 miles in length, was commenced in 1840. In 1854, the Court sanctioned an annual expenditure of £9,880 for the maintenance and improvement of the portion of this road between Agra and the frontier of the Bombay Presidency.

After the annexation of Pegu, roads were projected by way of Dacca to Arnacan, from whicly province a road was to be carried over the mountains to Prome Great difficulty was experienced in laying out a road from Calcutta to Dacca, and it is probable that this part of the project will not be carried into effect; the traffic of this district, so intersected by ' tidal channels, being left to be called on by water, unless it shall be found placticable to form a railway. A load to Jessone (the line of communication with Assam and Buimah) was however sanctioned, at n^{*} cost of £41,720 on a lough estimate. From Dacca to Chittagong, considerable progress has been made in the formation of a load, or rather in the completion, as a first-class road, of the road which, though in a most inefficient state, previously existed. From Ariacan into Pegu, the task of forming a road across the mountains by the Toungoop[#] Pass has been most successfully accomplished by Lientenant Forlong.

In Pogu itself, no time was lost after the Pogu Road acquisition of the province, in commencing improved means of communication. The sanction of the home authorities was sought and given to roads from Rangoon to Prome, a distance of nearly two hundred miles, at an estimated cost of £160,000, and from "Martaban to Toungoo vid Sitang.

Besides the great lines of communication Miscellaabove enumerated, a multitude of shorter lines have neous Roads been constructed, at the entire cost of Government, m Bengal, the North-western Provinces, and the Punjab, while considerable sums have annually been expended in the two former divisions of tenitory from local funds. Among the roads either completed or under construction at the expense of Government, is one from a point on the East-India Railway to Darjeeling (noughly estimated at about £200,000); another from Doobee, on the Grand Trunk Road, to Patna (cost £115,000); numerous roads in the Saugor and Neibudda territories; and a road from the plains to Simla and the other hill stations, continued through the mountains to Chini in Thibet. The district roads were, until within the last few years, maintained from the profits of the ferries kept up by Government; but there are now also appropriated to this purpose, in Bengal, the surplus tolls pon the Nuddea rivers and the Calcutta canals, amounting altogether to £50,000, and the surplus proceeds of various local funds established for other purposes. In the North-western Provinces, one per cent on the land revenue is contributed in equal portions by the Government and by the landowners, for the purpose of district roads; the landowners poing thus freed from the obligation which previously lay on thom, of keeping in repair the public roads

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which passed through then lunds. In these provinces, as in Bengul, the ferry funds are appropriated a district roads, and they amount to about £20,000.

The first step to the systematic proscention of load-making in the Madias Presidency was taken in 1845, by the appointment of an officer to the charge of the main or trunk lines of road, and the appropriation to the maintenance and improvement of the roads, of the annual sum of £40,000. The roads under the charge of the superintendent wore, the Western Road, to the Mysone function towards Bangalone (200 miles); the Southern Road, to Trichinopoly (205 miles); the Northorn Road, to the Bengal fiontier, with a branch to Cuddapah (785 miles); and the Sumpajee Ghaut Road, from the western frontier of Mysore to Mangalore (105 miles). Up to May 1851, £37,121 had been expended on the Western Road, exclusive of the cost of superintendence; and the road had been made passable for travelling-carriages at the rate of six miles Besides the road department under the an hour. charge of the superintendent, the Civil Engineers of districts were charged with the improvement of the district roads, under the orders of the Collectors; and the care of roads in some districts, was under the officers of the Military Board. The expenditure on 10ads, bridges, and ghauts, under the Madras Piesidency, increased in the five years from 1846 to 1850, from an average of £16,179 to 8ne of £42,076. The expenditure in 1849, 1850, and 1851, was respectively £45,149, £58,197, and £59,680. In the succeeding year the department came under an improved organization; and the outlay in 1855-56, the last year for which it can be ascertained, was £193,980; to which may be added £30,957 for navigable canals,-in all £224,887.

Madaas Roads. Among the works in progress in the Madras Presidency for the improvement of the means of communication, is the formation of the East Coast Canal, to be effected by the junction of the various back-waters, and of the local canals which in several places already exist, completed by entirely new channels to be excavated. The expenditure on this work, up to 1855-56, amounted to £14,171.

The made roads in the Bombay Presidency, twenty-five years ago, were almost entirely limited to the presidency town and its immediate neighbourhood; the road from Bombay (or rather Panwell, on the other side of the harbour) to Poonah, being the only road to a distant place on which any considerable expenditure had taken place. This road has since been greatly improved, and supplied with bridges. The Bhore Ghaut, or pass, on this load, formerly accessible only to bullocks, and coolies (or portois), had in 1830, at an expense of about £13,000, been made easy for carriages: the Thull Ghaut, on the Bombay and Agia load, has since been similarly improved; and loads over the Khoonda Ghaut, the Tulkut Ghaut, and the Koomtuded Ghaut, to the southward, have since been put under construction, to facilitate the communications between the coast and the intenor of the country. The portion of the Agra and Bombay load within the jurisdiction of the Bombay Government is 270 miles in length : the expenditure on it had amounted, in 1848, to £75,390; and since that time a considerable outlay has taken place, especially on the improvement of the Thull Ghaut and the road below it.

Bombi y Roads,

A system of 10ads for Sind, at an estimated Si cost of from £20,000 to £30,000, received the same- Roa tion of the home authorities in 1854, and is in progress.

New)rganizatin of Public Works,

From the preceding details it will be seen that very considerable sums had been expended on the construction and improvement of roads in India at a much earlier period than is frequently represented. But the extraordinary activity with which these operations have been carried on dates from 1850. In January of that year, the home authorities, being dissatisfied with the progress made in the prosecution of public works throughout India, deliborately reviewed, in a despatch to the Government of India, the system under which such works had, up to that time, been carried on, and found, in the division of responsibility and the absence of unity of action, ground for the opinion that a great change was required. In consequence of the orders contained in that despatch, a Commission was appointed in each presidency, to consider and report on the subject. Their investigations have led to the formation of a separate department of Public Works in each presidency, based on one uniform plan, and to the addition of a secretary in the department of Public Works to the secretariat of the Govenment of India. From this period to the commencement of the present unhappy disturbances, the activity of the department has been incessant; the engineer officers of the three Indian armies supplying the higher order of professional skill, and the subordinate European superintendence being afforded by numerous non-commissioned officers possessing the requisite, qualifications, and latterly by a considerable number of civil engineers, engaged in England, who have proved in many cases of the groatest value to the department, As a means of supplying well-qualified subordinates for the purpose of public works, a college for instruc-

Colleges of Civil ngineering. tion in civil engineering was established in 1847. It was fixed at Roorkee, near the head of the Ganges Canal, the works and establishments at that place affording peculiar facilities for combining practical with theoretical instruction. The plan of the college was greatly enlarged in 1852; and its annual charge is about $\pounds7,000$. The establishment of colleges of civil engineering at Calcutta, Madras, and Bombay, has subsequently been sanctioned.

The preceding statements relate only to works constructed by public money. The construction of railways is carried on by private capital, with a guarantee of interest by the Government. It is proper to give a brief summary of the railway-works which have been sanctioned and commenced.

Four thousand one hundred and fifty-eight miles of railway have been sanctioned, and measures are being taken for their construction under a Railwaya.

guarantee of interest, viz. :----

By the *East-Indian* Railway Company, from Calcutta to Delhi, with branches from Burdwan to Raneegunge, and from Mizapore to Jubbulpore, 1,400 miles.

By the *Eastern Bengal* Railway Company, from Calcutta to the Ganges at Koostree, near Pubnah (130 miles), being the first section of a line to Dacca, with a branch to Jessore; which, when completed, will form the basis of a system of railways for Eastern Bengal.

By the *Madras* Company, from Madras to the western coast at Beypore, 430 miles; and

From Madras, vid Cuddapah and Bellary, to meet a line from Bombay at or near the river Kistna, 310 miles.

By the Great Indian Peninsula Company, from

Bombay to Calhan, thirty-three miles, with oxtonsions,

North-east to Jubbulpore, to meet the line from Mirzapore, with a branch to Oomrawuttee and Nugpore, 818 miles; and south-east, vià Poonah and Sholapore, to the Kistna river, to meet the line from Madras, 357 miles.

By the Sind and Punjab Company, from Kuriacheo to a point on the Indus, at or near to Kotree, 120 miles; and from Moultan to Lahore and Amritsir in the Punjab, 230 miles.

By the Bombay, Baroda, and Central India Company, from Bombay to Surat, Baroda, and Ahmedabad, 330 miles.

The following statement shows the amount of capital which, it is estimated, will be required for the above extent of lines, and the amount of capital already issued :----

* 	RAILWAY COMPANY.	Estimated outlay i quired to complete the several Lin is sanctioned.	Total amon it of Capitul at present issued with the same ton of the Dast-I aha Company				
	East Indian	£12 731,000	£8,731,000				
	Lastern Bengal	1,000 000	1,000,000				
	Madras	6,000,000	4,000,000 *				
	Great Indian Peninsula	10,000,000	6,333,300				
	Sind and Punjab	2,500,000	1,000,000				
	Bombay, Baroda, & Central India	2,000,000	1,750,000				
	ŕ	34,231,000	22,814,000				
	In addition to this assistance by way of						

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guarantee, the land for the railways (including.com-, pensation for all buildings thereon), and for their termini, has been given by Government. The value of this may be estimated at more than £1,000,000 for the above extent of line.

The lines in course of construction have been chosen for commercial, quite as much as for military - and political, objects. In every case the existing channels of trade have been followed. The chief cotton producing districts are provided with railway accommodation; and in one or two instances, such as the railway which connects the great cotton-field of Berar with Bombay, and the railway through Surat and Guzerat, the principal object is to develop the agricultural resources of those districts, and to bring their produce into communication with the sea.

At present only a small section is open in each Presidency, making about 400 miles in all; but 3,600 more are being constructed almost simultaneously. The following statement will show the sections now open, the periods at which other sections are to be opened, and at which the whole will be completed :---

				·····			
, RAI	LWAY COMPANY.	Total length of Lines.	Experimental Line	Periods at whi	ich it is estimated t Lanes will be	that the remaining completed.	Vorks on the
Calcu Murz (a) Not fie	INDIAN. atta to Delhi say apore to Jubbulpore (a). te.—No period yet speci- d for the completion of e line.		branch to Ranee gauge, 121 miles,	miles), 210 from Calcutta; Decem	Between Rajma- hal and Allaha bad, 440 miles, 1860.	100000	Cawnpore to Delhi, 260 miles; October, 1858 (excepting the bridge over the Jumna).
GREAT BOIL Call bi	INDIAN PENTASULA — abay to Calhan ian to Jubbulpore, with ranch to Nagpore, viá iomramutuce	33	Bombay to Cal han, 33 miles; commenced 1850 completed 1854	[N. E. LINE. Bhosawni to Oomrawuttee, 125 miles; De- cember, 1860.	to Agpore, 138	Bhosawul to Jubbulpore, not yet estimated, probably the end of 1861.



* Delays have occurred in this district, in consequence of the Sonthal insurrection and the subsequent disturbances in Bengal. † Would have been opened by December, 1857, but for delays occasioned by the mutiny

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The works for the trunk lines above described have been made suitable for locomotive engines, and, are of a solid and permanent character, so that an uninterrupted communication will be maintained throughout the year.

The mileago cost of the lines which have been completed has been :----

Last Indian.—Calcutta to Raneegunge, 121, miles (including double line to Burdwan, and terminal stations), about £12,000 per mile. Madras.—Madras to Arcot, sixty-five miles, about £5,500 per mile.

The data in respect to the line now open in the Bombay Presidency, constructed by the Great Indian Peninsula Railway Company, are not sufficiently complete to enable the actual mileage cost to be ascertamed.

It is, perhaps, premature to judge of the success of Indian railways as commercial under takings; but the line from Calcutta to Rancogunge is already earning a profit of nearly seven per cent being two per cent beyond the guaranteed rate o interest. The following table will show the exten of traffic on the East-Indian Railway for the yea ending 31st December, 1856:---

PERI

turn ton	Nu Nu	Number of Passengers conveyed			
PERIOD.	1st Class	2nd Close	31d Class.	Total.	
Six Months ending } 30th June, 1856 }	6,466	23,256	402,599	432,321	
Six Months ending } 31st December, 1856 }	$\Psi \times \Gamma$ ρ have $\Gamma 20$ A/7		432,605	463,121	
	13,105	49,138	835,204	 895,442	
PERIOD.	Good	ls.	Receipts.		
Six Months ending } 30th June, 1856 }	Tons. 33,010		£.	s. d.	
Six Months ending } 31st December, 1856 }	44,6	75	95,188	164	
······	·····	······			

		77,685	95,188	164	
·	· · · · · · · · · · · · · · · · · · ·				-

It may be observed that these are the results of the traffic on a line where the amount of merchandise conveyed is very small, compared with what it will become when the railway is continued to the Ganges at Rajmahal.

The numbers stated under the head of "Third Class," in the above table, will in some degree indicate the extent to which the natives use the railway. The receipts from this class are nearly four times as great as from the two higher classes combined; the receipts from passenger traffic in the half-year ending 30th June 1856, having been :--- *

1st Class	•••	•••		Rs. 27,986
2nd "		•••	•••	29,589
Bid "		• • •	•••	1,99,883

In addition to the lines specified above, the Court have sanctioned the construction of one by the Calcutta and South-eastern Railway Company, from Calcutta to the Mutlah river, upon the same terms as to the provision of land, but without any guarantee of interest.

Зюстик lega sph Even more important as a means of communication than railways, is the electric telegraph; the use of which, at the commencement of the late disturbances, may be said with scarcely any exaggeration to have saved our empire. Having already, in a wonderfully short space of time, connected the seats of the different Governments by lines of telegraph upwards of three thousand miles in length, the Government of India is now engaged in establishing additional lines of about the same extent, through which the most important places will be brought into communication with each other by alternative routes. The lines established, and in course of construction, are :---

1st. From Calcutta, vid Bonares, Cawnpore, Agra, Meerut, Delhi, Umritsir, and Lahore, to Peshawur; with a branch to Lucknow.

2nd. From Bombay to Agra, via Indore and Gwalion.

3rd. From Bombay to Madaas, vid Sattara, Bellary, and Bangalore.

4th. From Bombay along the coast, by Vingorla and Mangalore, to Cananore.

5th. From Bangaloro to Ootacamund and Mahableshwar.

6th. From Benares, through the contro of the Peninsula, by Mizapore, Jubbulpore, Nagpore, and Hyderabad, to Bellary.

7th. From Bombay, by Smat and Baroda, to Kurrachee.

8th. From Kurracheo, by Hydorabad (Sind) and Moultan, to Lahore.

9th. From Calcutta, by Dacca, Akyab, and Prome, to Pegu and Rangoon.

10th. From Calcutta to Madras, by the coast; and----

11th. From Madras, along the coast, by Pondicherry, Tranquebar, and Ramnad, to Coylon.

The lines already established have cost, upon an average, about £50 per mile. Besides their inappreciable value to the Government for political and military purposes, they are freely used by the mercantile community. Though the charges are very moderate, the revenue, in the first year of working the lines, exceeded the expenses, and since then the receipts have been steadily increasing

EDUCATION.

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The first measures of the English Government Education for aiding education in India were directed to the Proceeding preservation of Oriental learning from decay; and several institutions, supported or endowed by Government, wore maintained for that special purpose. A secondary object was the training for the service of Government, of men acquainted with the systems of law followed by the various religious communities,

and constituting on contum subjects the rule binding on our tribunals.

The views of the Government, however, gradually underwent a great change; and, partly from the spontaneous action of the Government and its officers, partly by directions from home, the basis of the Government measures for promoting education was greatly widened, on the one hand by introducing the study of English into all the higher places of instruction under Government influence, and on the other by giving a much wider range and greater practical utility to the studies carried on in the vernacular or other Oriental languages.

overnment Jolleges.

All the Government educational institutions in Bengal have been either gradually brought within the scope of these principles, or were originally founded on them. Those institutions consisted, proviously to 1854, of the Hooghly, Dacca, and Kishnaghur provincial colleges, with the schools attached to them: to these has since been added a college at Berham-At Calcutta itself, the Government contributed pore. to the funds for the support of the Hindoo College and of the Mahomedan Madrissa, but there was no institution at the presidency town open to all classes and creeds, at which an education of a high order was imparted. This deficiency was supplied in 1854, an arrangement being made by which the IIindoo College, as an exclusive institution, was abolished, and a Presidency College established, calculated to afford an education of the highest order, and open without restriction to all sections of the community. The cost of this institution will amount to above £10,000, when all the arrangements shall be complete. It amounted in 1855-56 to between £7,000 and £8,000. In addition to general education, provision is made in this

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institution for instruction in law and juisprudence : medicine and civil engineering are otherwise provided for.

The Government colleges in the Northwestern Provinces consisted, in 1854, of those at Benares, Agia, Delhi, and Bareilly. In these, as at the Bengal colleges, education was imparted through the medium both of English and of the vernacular. The education given was of a very efficient character, and the students generally obtained employment in the service of Government, in which many of them fill situations of responsibility.

For a considerable period, the direct and of Government to education, both in Bongal and in the North-western Provinces, was principally confined to the Government colleges, and to the schools which were attached or affiliated to them for the purpose of

Vil age Schools

supplying them with students. In 1846, however, Mr. Thomason, the Lieutenant-Governor of the Northwestern Provinces, proposed a plan for the establishment throughout those provinces of a system of village schools, by means of an assignment of land by Government for the support of a schoolmaster in each village. In 1848 Mr. Thomason submitted amended proposals, confined to the establishment by Government of one school in each tehseel, as a model for the "village schools, and the institution of a visiting agency, which, with a visitor-general at its head, should not only superintend the Government schools, but visit the village schools generally, for the purpose of assisting and aiding the masters, and rewarding the most descriving. The cost of this scheme, for all the districts of the North-western Provinces, was estimated at upwards of £20,000; but it was considered best to introduce the plan experimentally in eight districte

at a cost of £3,600 per annum (exclusive of the salary of the visitor-general): and this measure proved so successful in the selected districts, that its extension to all the thirty-one districts of the North-western Provinces was subsequently sanctioned, at a total cost of £17,207.

lkabundee or Chele Schools.

But valuable as wore the general results of this scheme, and useful as were the telescel schools to the inhabitants of the towns,' the village schools (though the numbers attending them had considerably increased) did not improve as had been hoped; and a new plan was accordingly devised, with the best prospeets of success, to meet the wants of the agricultural This is the establishment of hulkabundee population. or circle selools. Several villages conveniently situated for the purpose are grouped together, and in a central situation a school is established, at the joint cost of all the villages none of which is more than two miles. from the central school. For the support of these schools, the consont of landownois was sought to the appropriation of a small percentage on the amount of the Govennment revenue (one per cent being the amount fixed), of which half is contributed by Government and half by the landowners. The assent of the landowners to this plan has been obtained in many districts; and it will be made a condition of all future settlements, and has been so made as resettlements^T have taken place. It is estimated that when all the districts shall have been resettled (which will not be till 1874), £40,000 per annum will be thus available; of which £20,000 will be at the expense of Government, and £20,000 at that of the landowners. In Bongal, the establishment of 101 vernacular schools had been authorized by the Gevernment in 1844. shortly before the first proposals of Mr. Thoma-
son. The schools were established at the places where they were thought most likely to succeed; but, except in a very few cases, they failed to attract scholars, the old indigenous schools, where nothing worthy of the name of education was afforded, proving more popular. In 1853 and 1854, accordingly, this system . was superseded, in favour of the plan already adopted in the North-western Provinces, of a visitorial staff, model schools, and aid and encouragement to indigenous schools. The estimate for the plan, on the experimental scale proposed, amounted to about $\pounds7,000$ per annum.

There was a normal school for the masters of vornacular schools at this time at Ag1a, which was for working very well. At Calcutta, the Sanscrit College furnished a considerable number of masters suited for village schools.

Thus stood the arrangements of the Government for native education in India, when a new impulse was given to the subject by the orders from home in 1854. Before adverting to these, something must be said of what had previously been done in the two subordinate presidencies. The history of education at Madras, up to a recent period, presents little beyond a record of failures. A plan was proposed by Sir Thomas Munio in 1822, and approved by the home authorities, for the establishment of provincial, district, and tohsool schools, throughout the Presidency, at an estimated cost of $\pounds 5,000$ per annum. Schools were established, but they proved failures, and were abolished. The University of Madras was nominally established by Lord Elphinstone's Government; but in the only department of it which was really proceeded withthe lowor department, or "Iligh School"___the ma

School for Teach cess was by no means great, and the number of pupils was quite disproportionate to the expense. The whole subject of education came under reconsideration in 1852, when a plan was laid down by the Government, which provided for the education of all classes in a way very much in accordance with that which has since been laid down for adoption throughout India; comprising a central institution at the Presidency, provincial colleges or high schools, zillah and tehseelee schools, with a system of inspection or visitation, and grants in aid. The University at Madras was at once remodelled; but little progress had been made, up to 1854, in carrying out the other parts of the plan, beyond the establishment of provincial schools at Cuddalore and Rajahmundry.

lleges and chools in Western India.

The principal places of education in the Bombay Presidency are the Elphinstone Institution at Bombay, and the College at Poonah. These institutions. partly founded by native subscriptions and partly by the Govenment, were designed to afford a collegiate education of a high class, through the medium of the English language, a staff of professors being maintained for giving instruction in mathematics, English literature, natural philosophy, logic, mental and moral philosophy, political economy, &c. A high school was attached to the Elphinstone Institution, and a Sanscrit department to the Poonah College. In 1854-55 there was only one district of the Presidency in which there was not a Government English school. Veinacular schools had been established in many places at the expense of Government, but as the plan had not long been adopted of requiring any part of the cost to be defiayed from local resources, operations in this direction had been much limited by want of funds. Under a plan brought into operation shortly before

1854, the establishment of a school by Government was made conditional on a portion of the expense being defrayed by the inhabitants; and under this a de venacular education was in course of steady extension up to 1854. A normal class for masters of Maluattee schools existed at Poonah, and one for masters of Guzerattee schools at Smat.

It is now time to advect to the despatch from the home authorities of the 19th of July 1854, which was designed to give as great an additional impulse to the operations of Government in the promotion of education, as had already been given to the department of Public Works. This despatch enceted that the previous Boards of Education, which consisted of private persons and of Government officers in t cir private capacity, should be abolished, and that a department of Education, under a ducctor, should be appointed in each Presidency and sub-Presidency The limits which had proviously been placed upon the total expenditure of each Governmert for educational purposes, were removed. The establishment of un'versities at the Presidency towns was directed, and minute instructions were given respecting the rade of their constitution. A great extension of vernacua. education was contemplated, and orders were given for introducing the system of grants in aid to private institutions, dependent on the quality of the scenlar instruction given, as ascertained by a Government inspection. Effect was immediately given to these instructions, so far as regards the formation of the controlling establishments. Directors of Public Instruction were appointed in Bengal, the North-western Provinces, Madras, Bombay, and the Panjab, and under them inspectors and sub-inspectors of different grades, and

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in numbers proportioned to the territories to be superintended. Rules for regulating grants in aid have Figures in been laid down, and considerable grants have been aid. made under all the Governments. The amount of these grants was at first limited by the authorities in India to a certain percentago on the expenditure on Government institutions; but this limit has been invessions taken off by instructions from home. Universities have been constituted, under acts of the Legislature of India, at Calcutta, Madnas, and Bombay. Moasmos are also in progress for carrying out the objects of the despatch of 1854, as regards vernacular education in Bengal, Madias, and Bombay. In the North-western Provinces it has only been necessary to give greater extension, as had been proviously intended, to the measures already infloduced.

Medical cchools and VCollc_bes.

In addition to the institutions for giving a general education to the different classes of the community, either through Luglish or the vounacular, colleges or schools for several branchos of professional education are maintained at the different presidencies. Of the engineering colleges mention has already been made. Medical schools had from an early period been maintained at all the presidencies, to train persons for employment in the subordinate branches of the modical service, as compoundors, dressers, nativo doctors, &c. These institutions were gradually raised. in character, and for many years past have held the lank of colleges, in which medical education of a firstclass character is afforded. They have, in consequence, received the "recognition" of the College of Surgeons in London; and the graduates of these colleges are ontitled to all privileges which are conferred by the College of Surgeons on the members of the colonial medical institutions recognized by thom.

The graduates almost invariably enter the service of Government, though some few, especially at Bombay, prefer private practice. To afford encouragement to the graduates of the colleges, and meet the want of well-qualified medical officers for the service of Government, a special native medical ⁴ service has been cleated, under the title of Sub-Assistant Surgeons, for which a degree in one of the medical colleges of India is a necessary qualification. These officers are divided into three grades, promotion being regulated by the joint consideration of length of service and professional qualification, as ascertained by special examination. The principal use which has been made of this class, has been in connection with the Government dispensaries; but some few have been appointed to the charge of the smaller stations. Their professional qualifications are, in many cases, of *a high order; and the triumph which has been effected over the religious prejudices of the natives, in popularizing the dissection of dead bodies, is a poof that this indirect mode of correcting then superstitions, by the influence of useful knowledge, is a highly effectual one. 'The important subject of school books has been for many years attended to. In the Northwestern Provinces a vory large number of vornacular books, either originals or translations, have been prepared under the anspices of the Director of Education; and a highly efficient system is in force for their sale and distribution among the schools of all classes. At Calcutta and Bombay, much has also been done; and arrangemonts have more recently been made for the supply of school books in the difficult vernacular languages of the Madras Presidency.

Nativo Medical Service.

As a powerful stimulus to the general popula-

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School Books.

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Test for 19 Public

ducational tion to avail themselves of the means of education now placed so generally within thom reach, rules have mployment. been laid down absolutely requiring a certain amoun of education in all persons employed in the public service, except in situations of the lowest class. Even for those lower employments, the offers intinstee with the appointments are expected to select personcapable of reading and writing, provided they are qualified in other respects; and returns are required under most of the Governments, of appointments made, with special reference to this point.

Female Education.

An inroad has begun to be made upon native prejudices even in the department of female education. The late M1. Drinkwater Bethune benevolently established a school for Hindoo girls at Calcutta, which, after his death, was adopted by the Marchioness of Dalhousic, supported by the Marquis of Dalhousie until he left India, and is now maintained as a Govern-

ment institution under the special orders of the home authorities.

A highly satisfactory commencement of female education in the North-western Provinces was made in 1856, by the exertions of a meritorious native functionary, the sub-inspector of schools, Pundit Gopul Sing. By his influence ninety-seven female schools were established in the city and district of Agra, and each school was attended on an average by twenty pupils. The good example has been followed by () o formation of female schools in the zillahs of Mutua and Mynpooree. In the Bombay Presidency, schools for females have been established by natives at Poonah, which are stated to be in satisfactory operation; and some native ladies of wealth and influence at Ahmedabad have lately endowed a female school at that city.

Female education is included within the operations of the enlarged Government scheme of education, and it is hoped that progress will be gradually made in its diffusion.

MISCELLANEOUS IMPROVEMENTS.

Various important measures have been adopted within the last twenty years, both for the improvement of the productions of Indja and for the introduction of new products.

In 1840, ten experienced cotton-planters from Cotton Experimen the United States were engaged, and proceeded to India to conduct, on account of Government, the experimental cultivation of superior kinds of cotton, In the majority of the districts the experiment failed from unsuitability of climate, but in parts of Southwestorn India it was successful, and a large cultivation of American cotton in those districts now takes place. It is to be remarked that these districts are near the coast, and united with it by improved loads; and, indeed, with the exception of Berar (into the heart of which a line of railway will shortly be carried), all the puncipal cotton districts of India have ready access to water-carriage, and are not materially impeded by the remaining unperfections of the internal communications. A most complete body of in ornation on the cotton cultivation of India, and on the suitableness of the various local soils and climates to the cultivation both of the native and the foreign varieties of the plant, has been obtained through the exertions of the

American planters and of the servants of Government, and has been condensed and made public in the two works ontitled, "On the Culture and Commerce of Cotton in India," and "Review of the Measures which have been adopted in India for the improved Culture of Cotton," by an eminent officer of the Last-India Company, the late lamented Dr. Royle; so distinguished as a man of science, and whose thorough knowledge and understanding both of the Indian climates, and of general climatology in its relation to vegetable productions, has never been excelled, if equalled.

Indian rous Pro-Euctions.

The same eminent authority, in his work entitled, "The Tibrous Productions of India," has made known an amount of internal icsources, of the greatest value to this country (especially in the contingency of a Russian war), of which no one, even of those who had the strongest private interest in the subject, had a suspicion. The collection of naw products, brought together from all parts of India for the Paris Exhibition of 1855, has vastly extended the knowledge accessible to manufacturers and merchants, of the numerous articles suited to the European market, and capable of being imported in any quantity, which only await the necessary attention and the necessary funds on the part of enterprising individuals. An Industrial Museum has recently been formed at the India House for the reception of these and other choice specimens of Indian produce and manufactures. The Assam tea has been brought into regular ⁺ivation. cultivation; and the teas of China have been introduced as a staple product of agriculture, at the expense of Government, into the parts of the Ilimalayas which are suitable in point of climate. Mr. Fortune was employed in China to obtain a large quantity of the best scods, and to engage Chinese experienced in the

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South and preparation of the article. There is already a considerable production of the higher qualities of tea in these mountains; largo tracts of waste land suited to the cultivation are now placed at the disposal of persons desirous of engaging in it, and seeds and plants are given largely and gratuitously from the Govern-⁵ ment experimental establishments, to all who apply for them with a view to cultivation.

The Indian Governments lave long been active in placing the means of medical rehef within Dispensa reach of the population. The rules in force provide for the establishment of a civil hospital or a dispensary, in overy town the inhabitants of which have shown their appreciation of the benefit by either providing funds for the election of a building, or contributing towards the support of the necessary establishments, or by having for some time actually supported a dispensary on a limited scale from their own resources. These institutions are mostly managed by natives trained at the medical colleges; a general superintendence testing with the civil surgeons of the different Their success has been very great. The stations. number of hospitals and disponsaries, and of the patients treated in them, during the last year for which returns have been received, was as follows :----

Hospit

		mbor tatu <mark>tio</mark>	Number of Patients	
Bengal		43		153,161
North-west Pro	vinces	47		245,171
Madias	• • • • • •	35		184,069
Bombay	•••	17		88,793
		142		671,194

Measures have also been taken for many years, Vaccin at and with much success, for the diffusion of vaccination,

not only in the British territories, but also in the native states.

Libraries.

Of late years, the establishment of public hbraries in the provincial towns has been commenced. The assistance of Government is usually given in the form of a donation of books, and a regular supply of the publications issued by Government, which now include all the most interesting and important papers on the public records, relating to the condition and administration of the country.

nprovement of Native States.

Independently of what has been done for the benefit of our own subjects, much has also been effected, through the influence of the British Government and its diplomatic officers, to improve the administration of nativo states. It is hardly possible to exaggerate the disorder and confusion in which most of these were plunged at the time when they first became connected with the British Government (Those among the Mahiatta states which had any considerable military strength, made annual expeditions, called Mooluckgheery cucuits, for the purpose of conquering or devastating the possessions of their weaker neighbours; and hordes of undisciplined adventurers, known by the name of Pindarries, ranged with fire and sword from one end to the other of the part of India which was under native rule, occasionally invading and lavaging even the Butish possessions. All this is at an end. The native states are as safe from one another, and from invaders and plunderers from without, as the Butish dominions. The princes and chiefs are bound by treaties to refer to our arbitiation all their differences; and experience has given them the fullest reliance on our impartuality and justice.[^] Boundary disputes between villages of different states, and complaints from the Subjects of

some against those of another for robbories or other injuries, are adjudicated either by a British officer, or by Courts of Vakcels, composed of representatives of the neighbouring chiefs, presided over by a British functionary. In some parts of India, and particularly of Guzerat, which are divided among a great number for petty chiefs, too weak or too little civilized to control effectually their turbulent subjects, Criminal Courts have been established, consisting of a British diplomatic officer and assessors selected from among the native chiefs or nobles, for the trial of offences against the general peace of the country. Thoso They courts are a powerful agent of civilization. aro gradually wearing a very backward portion of the natives of India from their barbarous usages Thoy have nearly suppressed all the classes of cumes which arose out of a generally disturbed state of society; and in dealing with offences which originate in real or supposed grievances, they make due allowance for provocation, and redress the wrongs even of those whom they are obliged to punish for seeking justice by unlawful means. In the more considerable nativo states, our Influence is exerted on the side of good, in every mode permitted by positivo engagement. No, only have the British representatives, incessantly, and to a great degree successfully, meited native princes to prohibit. and suppress the barbaious usages which we have ceased to tolorate in our own territories; but defects have been pointed out, and improvements suggested, Ry their revenue and judicial administrations. I'manfial disorder and general misgovernment have been the subject of grave remonstrance, followed up by juch positive marks of displeasure as were consistent: with the respective treatnes. The minorities, which lo often occur in nativo states, have been made uso of

to appoint capable ministens, to reform abuses, and restore the country in an improved condition to the young chiefs; who, having been in the mean time for the most part educated in European knowledge, and initiated in to public business under the eye of a British officer, are often grateful for the care taken of their interest, and continue, after their accession to power, the improved systems commenced during their minonty. The present Scindia and Holkar, and the Rao of Kutch, as well as many others, may be cited as instances. One native ruler, the late Nuwab of Rampore, had actually been a deputy-collector in the service of the British Government. Another, the Rao of Ulwur, on his accession, invited some of our native functionatics to conduct his administration, and reform it after the English model. The Rajpoot states, formerly almost in a state of chionic anarchy, have been rendered peaceful and prosperous, by judicious ridduation between the princes and their foundatories, and judicious guidance of both, through advice and influence.

Protection and Improvement of the Oppressed Races. There still remain to be commonorated a set of proceedings, among the most interesting and the most honcurable to our Government, which have distinguished the present century—the measures for raising and civilizing the oppressed races.

> There are numerous hill tribes in various parts of India, known under the names of Bheels, Coolies, Goands, Mhairs, Moenas, Mhangs, Ramooscos, and others, who are believed to have been the abory ginal population of the country, driven from the plains by the invasion of the Hindoos. These people had been treated like wild beasts by the native Governments, and, by a natural consequence, had become the scourge of the country. Whenever the Government

was weak, they destroyed all security in the neighbouring plains by their depredations, and had universally acquired the character of irreclaimable robbers.

The first person who is known to have tried the effect of justice and conciliation on any of these tribes, was Mr. Cleveland, an officer high in the civil service of the Company, in the latter part of the last century. The scone of his benevelent exections was the Bhaugulpore Hills, in the north-cast of Bengal; and the feelings which he left behind him among the rude people of the district were such, that they long continued to pay religious honours to his tomb. The Axample thus set has been largely followed in the present generation. One of the first signal instances of success was in the case of the Mhairs, who inhabit a hill district near Ajmere. Colonel, Hall, now on the Company's retired list, originated the movement, and it avas worthily carried on by. Colonel Dixon, recently deceased. In Western India, the honour of the initiative belongs to Mr. J. P. Willcughby, then a very young officer, who by similar means established geaco and order among the Bheels of Rajpoepla, a wild district of Guzerat. The next instance was that of the Bheels of the Adjuntoe range, in Southern Candeish, through the agency chiefly of Colonel Ovans, and of the present Sir James Outram; and the measurves which proved successful with these Bheels, were successively extended to many similar tribes in different parts of Central India. Another example is that of the Khoonds in Orissa, among whom a policy of the same Meial character was carried into practice by Major Macpheison. This was the tribe who, as mentioned In a previous part of the present paper, have been maced to abolish human sacrifices.

The mode in which these objects were accom-

plished was in all cases fundamentally the same⁴ They were effected by the admirable power of individual character. Into fastnesses, through which bodies even of disciplined troops had vainly endeavoured to force their way, these officers penctrated, in some cases almost unattended. They trusted themselves to the people. By their comage and frankness they gained then confidence. They made them understand that they were not considered as wild annuals to be hunted down; that nothing but their good was intended; and the object which had for years been vainly sought by force, was accomplished by explanation and persuasion. The robber tribes were in) duced to settle as peaceful cultivators. Lands were assigned to them, tools supplied, and money advanced, for cultivation. In Mhairwarra the Government also constructed important works of imigation. The more daring spirits were formed into inegular corps, under Butish officers, and employed to preserve the peace of the districts of which they had once been the principal disturbers. In no single instance has this policy failed. The agricultural colonies composed of these people have all mospered, and the districts which they for merly devastated have become, and remained, among the most fice from crime to be found in India. In the late disturbances, not one of the corps composed? of these people is known to have mutinied. They Mhanwana battahon has not only remained faithful but is, in the present crisis, a valuable part of our local military strength; and there has been no disturbange whatever in that district. Among the Bheels of Candeish there has been a using, which, by showing that the predatory spirit is not you thoroughly extinct, enhances the menit of the system of measures which, for nearly a quarter of a century, it has been

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kept dormant. But the corps formed from among these very people by Sir James Outram has done useful service to Government in the present emergency.

The last great example of the success of this bolicy was given by Colonel John Jacob m Sind, and only differs from the others because the tribes with whom he had to do were not oppressed aborigines, but the proud and waikke mountainesis of the Afghan and Beloochee frontier. The success has been among the most striking yet expensed For some time after the conquest of Sind, the frontier forays of these tribes kept the country in a perpetual state of disturbance. The attempts to retainate on them in cheir hills had been failures, sometimes almost dissters, but had laid the foundation of that knowledge _. our power, which enabled subsequent conciliatory leasures to have their full effec. Colonel Jacob applied to these people the principles of Mhairwarra and Candoish. If e settled on land those who were willing to cultivate, and organized from among the remaindor a local military police. The effect is, that a the fiontier districts, what was lately a desert waste, now in great part a thriving agricultural country, adding a rapidly mereasing revenue. For some years so has been scarcely a crime of magnitude on the Intiro Sind frontier; and the corps which was raise l bartly from the former devastators of the country, A the celebrated Jacob's House. The preceding review of the improvements in Ų, dian administration, completed or commenced during 6 present generation, cannot more properly terminate an with this interesting piece of history. It is not recorded that the enumeration approaches to complotonoss. The instances given are merely some of

the most important achievements of a Government, o^* which perpetual striving towards improvement is the vital principle. But it is believed that even so im perfect a summary is sufficient to justify the assortion, that fow governments, even under far most favourable circumstances, have attempted so mu for the good of their subjects, or carried so man' of their attempts to a successful and beneficial issue A Government of foreigners, ever a people mos difficult to be understood, and still more difficult t be improved,—a Government which has had all it knowledge to acquire, by a slow process of study and experience, and often by a succession of failures, (generally, however, leading to ultimate success)-has a light to take pride to itself for having accomplished so much; and most certainly cannot be justly $r_{\Omega\theta}$ proached, by any existing Government or people, with not having effected more.

$\Lambda PPENDIX$ (A).

BENGAL SURVEY

In answer to inquiries made by the Court of Directors in 1854 respecting the effects lither to prolaced by the survey on litigation, crime, and the value of landed property, the Sudder Court say, in regard to "those classes of offences " which would be likely to be influenced by the completion of "the survey," that"" it is satisfactory to observe "the "con-" current testimony" of the criminal judges "to the diminu-"tion which has taken place in this description of crime." This result is partly attributed to the successful operation of Act IV. of 1840, which enables the magistrate to give an effectual remedy in cases of dispossession or ejectment; but, they add, "the evidence of the survey papers must have " greatly facilitated the pioceedings of the magistrate, whose " proceedings under the Act in question are determined solely " by possession." In regard to the effect on litigation, the judges say, "The ordinary result of the survey has been to cheit many "local differences and disputes which were lying dorman " until the survey award presented an opportunity to gain a " advantage over his adversary ;" "but as, under Act XIII.o "1848, such suits must be instituted within three years from " the final award of the revenue authorities, the Intigation thus " incidentally raised is afterwards almost entirely brought to " an end." On the question as to the "result of the survey in giving" "further security to the titles of estates, and generally in-" creasing the value of landed property, the opinions of the " local officers are, on the whole, satisfactory. The testimony " of all 18 strongly in favour of the additional security now . "given to title; and the judge of Suchabad observes, that " on the whole the survey is felt to be a blessing to the com- $_i$ " munity" 1

The Board of Revenue, Lower Pormes, staff the "it is quite clear that the value of the survey records as a " basis for but variab and settle unit proceedings is generally " acknowledged In some districts, butwarrah is applied for " without any new measu remient, solely on the clata furmished by " the survey. Their utility in the decision of bound uy disputes, " also, is universally admitted." In regard to the effect of the survey on the repression of affrays, the Boud quote the opinion of M1. Elliott, Commissioner of Bu dway. " by removing the cause of affriys, the skevey cannot "produce an effect greater even than the most stringent " legislation."

In the province of Cuttaec (not permanently settled) the survey and settlement operations were combined, and there "the improvement is vory perceptible. In Cuttack* the "value of lande | property is said to have increased twenty-"five per cent, and fifty per cent in Balasone;" but Peoree," " owing to frequent droughts and inundations, is an exception." " The survey," the Commissioner (of Cuttack) remarks, "is " worth much more to Government and the people than it has " cost."

APPENDIX (B). SURVEY AND ASSESSMENT OF THE NORTH-WEST IRN PROVINCES.

The objects of the survey were, first, to fix on each mehal or estate an assessment "ealculated so as to leave a fair " surplus profit," and " for the punctual payment of that sum. "The land is held to be perpetually hypothecated to the Gove n "ment;" secondly, to determine who are the "person o. " persons entitled to receive this surplus profit. The right " thus determined is declared to be heritable and transferable " and the persons entitled to it are considered the proprietor " of the land, from whom the engagements for the annual " payment of the sum assessed by Government on the mehal The three collectorates of the province of Cuttack program.

are taken." The proprietors, when there are more than one, teing jointly and severally responsible for the sum assessed on each mehal, it also became necessary to determine the rule according to which they should share the profits, or make good the losses on the estate. When the proprietors were numerous, as was generally the case, engagements were taken only from a few of the body (lumberdars) who, for tremselves and their co-proprietors, undertook to manage the mehal, and pay the sum assessed on it.

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"" is the more the process was to adjust the bounda ... or cash mouzah, or valage, and to prepare a map, showing each field comprised in the mourah. This being completed, the settlement officer proceeded to determine the assessment to be fixed on the land, by estimating, with as near an approach to accuracy as the means at his disposal would permit, what might be expected to be the net produce* to the proprietor during the period of settlement; and of this amount about two-thirds was fixed as the demand of Government. The village was then offered on these terms to the proprietors, and if they considered them too high, and declined to engage, the Government either leased the estate to a farmer, or collected the rents d reet from the cultivators; the excluded propuetors being entitled to a percentage (called malikana) at not less than five per cent on the revenue, and also having the right, at the expiration of twelve years, of claiming to be readmitted to the management. The fiscal operation of fixing the amount of revenue to be paid by the village being completed, the next process was to ascertain and record the rights possessed by all parties, whether called proprietors or not. When discordant claims were put forward, the question at issue was determined judicially on the spot Provision is also made for maintaining the "Record of Rights" in a correct condition, by causing registers of all changes in the village to be kept by the putwarree, or village accountant, copies of which are annually forwarded to the collector's office.

* "By net produce is meant the surplus which the estate may yield after deducting the expenses of cultivation, meladag the profits of stock and wages of labour"

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APPENDIX (C).

SURVEY AND ASSESSMENT OF THE BOMBAN 'L BRIFORY.

The first step in the process is to determine the houndaries of the village The area is then measured and rapped off into survey-fields If the land is unoccupied, no division of a field is afterwards permitted. When a survey wash actually occupied is owned by several proprietors or summer no joint responsibility is admitted, but the sharo of each are separately shown in the map, and the separate preprietorship continues un il one of the sharers dies without heir , or otherwise vacates his share; on which event the vacited share must be taken up by the remaining sharers, or, on th ir refusal, the whole field must be relinquished. The object of these rules is to consolidate the small holdings, and set limits to the minute subdivision of landed property naturally arising from the Hindoo law of inheritance. But it is believed that, in practice, no cofficulty has in such cases been found in inducing the remaining sharers to undertake the responsibility. The fields of the village being thus measured and mapped, the next process is that of classification, for the purpose of determining the relative values of the fields into which the land is divided. After a minute examination of the physical characters of the soil, its depth, composition, &c., the following considerations are taken into account as regards the fields of the same village; viz. "their natural productive " capabilities; then position with respect to the village, as " affording facilities or otherwise for agricultural operations; " and, in the case of garden or nice lands, the supply of water " for imgation" The measurement of the fields having been completed, and then classification determined, the amount of the assessment is next to be fixed This operation is not performed by inquiring into the actual produce of the fields, but rather by an examination into the previous fiscal history of such groups of villagra as are distinguished by similar physical characteristics The statements of former collections, remissions, and

balances, are collated, and compared with the existing inteact assessment. The "climate, position with respect to rankets, "agricultural seill, and the actual condition of the cultiva "tors," are taken into account; and for a consumation of these combined circumstances, rates are determined for each class of land; the object being to keep those intervalues the limit of the retural rent

The rates, being thus fixed, have only to be upplied to the surveyed fields. Thus a field of eigh acres, in a class r ted at twelve unas an acre, is assessed at six rupces. The assessment thus fixed is defined to be not table to increase on "thurfy years, during which period the full benefit of every "in provement, such as the conversion of d y into inighted "land by the digging of wells and tanks, the planting of "full-trees, &c, will be secured to the incumbent of the land, " and no extra assessment levied on that account"

The registered occupiers of fields are held to be the proprietors, so long as they pay the fixed assessment. They have full liberty annually to resign any portion of their holdings, or to increase them by the occupation of waste fields, on giving * due notice, and are thus chabled to extend o contract their cultivation according to their means of tillage. In either c se, they are responsible only for the assessment of the "clds which they actually hold, those relinquished by them ding at the disposal of Government, to ussign to any one willing to engage for them. The annual settlement, as it is called, which still takes place in the surveyed districts of the Boulany Fusidency, is now limited to an inspection of the fields by the village officers, to ascertain how many are cultivated and now many not. All those that are engaged for, whether cultivated or not, ac liable to the payment of the assessment, and those not engaged for, if cultivated, are also hable. The p an of giving remissions for failure of crops, for lands taken but unsown, &c , 15 abolished; and it is now expressly made known that reminsions are not claimable in individual cases, and will never be allowed unless under circumstances of cala nity affecting whole districts.

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APPENDIX (D).

DX IMPRION OF LANDS IMPROVID BY FU, WYOTS FROM IXTRA ASSESSMENT.

The general rule in force for many years in the Madras Presidency, was to make, in each case of a ryot improving his lands by eigging a well of otherwise, an enargement under which no increase of assessment was in posed until the expiration of a term sufficiently long, not only amply to compensate, but liberally to reward him for the labour and expenditure he might have applied

After considerable correspondence, however, the Court of Directors determined (2nd June 1852) "to allow to the ryots "the full benefit of their own in provements; the land so "improved being subjected to no additional assessment on that "account, so long as the general rates of the district remain "unaltered"

The Circular Order of the Madras Government, publishing this rule, and announcing that in any general reverses of the rates, "any modification in the assessment of lands so "improved will be irrespective of the increased value con-"ferred upon them by their holders," was approved by the Court on the 20th April 1854.

A rule proposed by the Board of Revenue, requiring ryots proposing to sink wells, to give notice to the collector, was disallowed, as tending "to cause delay an ebstruction "and to give an opening for exaction to the native servants."

APPENDIX (E).

SALT REVENUE

per maufid of 823 lbs avoindupois; Government sut som to the people at cost price added to the duty, importation unrestructed, and facilities given to persons willing to nanufacture salt under excise regulations.

North-western Provinces.—Manufacture (from salile ous carths) prohibited. Duty on passing the frontier line, Rs. 2 per maund, and 8 annas additional on crossing the Allahabad special line of chokeys.

Punjab -- Salt mines worked by the Government, and the salt sold at the mines at Rs 2 per man id.

Fort St. George.—The manufacture of salt a Government monopoly, the price charged to purchasers being one super per maund. Importation permitted, on payment of a dety of 14 annas (seven eighths of a super) per maund, supposed to be equivalent to the profit obtained on the monopoly of salt.

Bombay.—No manufacture on the purt of Government. An excise duty of 12 annas per maund levied on home-made salt, and a customs duty of equal amount on imported salt.



