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A.I.R.'s NEW CHIEF ENGINEER

The same aeroplane which brought Mr. C. Goyder to India brought the above photograph of our new Chief Engineer. But as it arrived on the very day the "Indian Listener" went to press, we decided to insert the photo as an inset rather than that our readers should have to wait another fortnight to see it.

Mr. Goyder who comes straight from the B.B.C., has had a wide experience in the technical and research side of broadcasting. Only a month or so ago he was in America studying the latest improvements in both transmission and reception, and on his way to India he stepped off in Egypt for a short time to study how radio was conducted in that progressive country.

India will warmly welcome Mr. Goyder to her shores, confident that his arrival is yet another step forward in the Government's policy to build up a strong and reliable broadcasting service. True, India will be a stern mistress in the amount of work she will demand from her new Chief Engineer, even as she will almost submerge him with problems of many kinds. But in the long run she will cordially thank him for his contribution to her radio progress.
THE INDIAN LISTENER
(Incorporating "THE INDIAN RADIO TIMES")
OFFICIAL ORGAN OF ALL-INDIA RADIO

Vol. I.
22nd AUGUST 1936.
No. 17.

ELECTRICAL INTERFERENCE

SOME time back, we invited listeners to send us their technical problems for solution or advice, and we are glad there has been a very satisfactory response. Many people have written congratulating us on this new service, and queries are coming in from all parts of India, from Shillong and Bagalkot, from Meerara and Beawar, from Howrah and Karachi, to name but a few.

A marked feature has been the number of letters complaining of electrical interference with radio reception. This is a very knotty problem which has not yet been satisfactorily solved even in Europe where broadcasting is much older. Taking the case of Great Britain, the committee appointed by the Institution of Electrical Engineers has just published its report, after more than three years of deliberation, and the most important of its views is in regard to compulsory powers for ensuring that interfering equipment is rectified. The report says: "As it became clear to us that the various technical aspects of the problem were approaching solution, we felt that we ought to give renewed consideration to the important question whether compulsory powers should be conferred on some authority to require radio-interference suppression in cases in which it appears that this will not be achieved effectively without the application of such powers. It became evident from the discussions of the Committee that the majority of members did not consider that effective interference suppression would result if the improvement of the position were to be left solely to voluntary effort. The manufacturers of appliances and plant which are liable to cause interference definitely support this view."..."

We would remind our readers that this committee was mainly concerned with a country covering India, and till then listeners will have to fish out a few microvolts from an ether full of cracks caused by all sorts of electrical apparatus.

PUBLIC OPINION

LEGISLATIVE aid is, however, a very difficult matter, and it seems unlikely that any steps will be taken in the near future unless public opinion is definitely in favour of it. Any action taken would, of course, be aimed at the makers and importers of new apparatus, who would be compelled to make them non-interfering, while owners and users of old apparatus would be given some time to set them right and prevent interference.

To many, in fact, it would seem rather premature to ask for legislative powers to protect thirty or forty thousand listeners from interference created by the users of electricity who probably outnumber them a hundred times. Consequently there would almost certainly be a great outcry from affected people that such action would be unwarranted interference with the rights of the individual. This is quite common, and have been common for a long time. But Science has accustomed us gradually to the idea that an individual who behaves prejudicially to the public good must be restrained from doing so, whether his action is letting an insect pest multiply unchecked or travelling in a train when suffering from a dangerous contagious disease. There is no reason to despair of the time when a person who uses a defective table fan which interferes with his neighbour's reception will be as effectively restrained as the one who practices cornet solos in front of a mosque. But it is necessary that public opinion should make itself felt before strong measures are possible for abating the nuisance.

This does not mean that nothing is being done for the listener just now. Proposals are afoot for training license inspectors in the work of locating electrical interference and suggesting remedial measures. This obviously takes time and special apparatus is also needed. In the meantime, we propose to publish a series of articles intended to help the technically minded listener in spotting sources of interference and helping to reduce it by means of suitable gadgets. In addition, we shall always be pleased to reply helpfully to us that the various technical aspects of the problem were approaching solution, we felt that we ought to give renewed consideration to the important question whether compulsory powers should be conferred on some authority to require radio-interference suppression in cases in which it appears that this will not be achieved effectively without the application of such powers. It became evident from the discussions of the Committee that the majority of members did not consider that effective interference suppression would result if the improvement of the position were to be left solely to voluntary effort. The manufacturers of appliances and plant which are liable to cause interference definitely support this view..."

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A summary of the Report referred to in this note is published on page 15 and will undoubtedly be read with great interest by many listeners.

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On the... Air

We are glad to announce that the following ladies and gentlemen have agreed to serve on an advisory council to the Delhi broadcasting station:-

Professor B. N. Ganguli, Dr. S. K. Sen, Pandit Haksar, Mr. Shiv Raj Bahadur, Mr. Ghulam Muhammad, Mrs. Asaf Ali, Mrs. Krishna Rao, Mirza Mohamed Said, The Hon'ble Raji Charanjit Singh, Sir Mohammed Yamin Khan, Mr. J. C. Powell-Price, Lala Shri Ram, Mr. Ram Khisore, and Late Zakir Husa Win.

There seems to be a good deal of misapprehension as to the functions of an advisory council on broadcasting, and it may be as well to stress the fact that this is an advisory council and not a Governing Body. But that is no reason for jumping to the conclusion that it will not accomplish more than a somewhat ineffective smokescreen. Many people in India seem to have a fixed idea that an advisory council should itself be responsible for the arrangement of every singer, every song, every speaker, and every talk. Neither a Board of Governors, such as the B.B.C. has, nor an advisory council has the time to concern itself with the multitudinous details of daily broadcasting. Neither is even particularly fitted to do so. The functions of an advisory council are, in essence, to represent the views of listeners on questions of general policy and to advise the broadcasting authorities thereon. Their duties obviously include matters such as the general lay-out and timings of programmes, staff appointments and salaries, linguistic policy, the percentage of classical and light music in programmes, and so forth. It is obvious that in most cases their advice will be gladly accepted, for the simple reason that the council's weight of opinion provides broadcasting with an efficient shield against criticism. In other more crucial matters, however, it is equally obvious that their recommendations may have to be considered by the Government of India. Whether the present council is a sufficiently alert and representative body only time can show, but we very greatly regret that the Congress Party has refused to permit Mr. Asaf Ali, M.L.A. for Delhi, to serve on the Council. Mr. Asaf Ali is not only an excellent broadcaster himself but is well acquainted with the problems of broadcasting: his absence leaves a section of the public by its own volition unrepresented.

RED TAPE

THE recent serious accident at the Delhi station, in which a mali was drowned and the Station Director barely escaped with his life, may perhaps serve to draw attention to two points: the penalties of accentuated red tapism, and the danger of inefficiently-covered wells. It is clear that thousands of such wells exist, concealed under layers of tiles placed over rotating beams and, as in this case, half hidden by soil and grass. It was, as a matter of fact, a pure chance that Mr. Bokhari and Mangaram were seen to fall

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into the well: had not a clerk happened to be crossing the compound, nothing would have been known of the accident and they would, in all likelihood, have been left in the well for several hours.

The Delhi Fire Brigade refused to answer the call for ropes and ladders, and may perhaps have been technically correct in doing so: but it seems a pity, to say the least of it, that red tape should take precedence over the saving of life. The tragic incident is illuminated by the fact that, at the same time as the accident occurred, numerous of men were engaged in the courtyards of the Secretariat painting large scarlet fire alarm signs, with full directions upon them, in preparation presumably for the Viceroy's visit to Delhi, following the concern manifested by His Excellency in the safety of life during his visit a few weeks ago to the Secretariat at Simla.

We certainly hope that with all these newly painted signs, the Secretariat will have more luck than the Delhi station did: the only fly in the ointment, of course, is that, if it does, a successful configuration of files will be more unhappily remote than ever.

CHIEF ENGINEER'S ARRIVAL

Mr. C. W. Goyder, of the B.B.C. Technical Research Division, has been appointed Chief Engineer to All-India Radio, flew out to India so as to be in time for the next meeting of the Standing Finance Committee when the estimates based on Mr. Kirkke's recommendations for new stations in India will be considered. Mr. Goyder is a man of rapid decision and wide experience. He has travelled extensively, and returned only a month ago from a visit to America where he has been inspecting the latest developments in broadcasting technique, including the use of ultra-short waves.

SELECTION BOARD

At the request of the Controller of Broadcasting, a board consisting of Lala Shri Ram, Secretary, Delhi Cloth and General Mills Ltd., Dr. Zakir Husain Khan, Principal, Jamia-i-Millia, Delhi, and Revd. J. C. Chatterjee, Superintendent of Education, Delhi, Ajmer-Merwara, met at Delhi on July 17th, 28th and 29th and interviewed about 200 candidates for vacancies in A.I.R. The Controller wishes to express his thanks to the members of the Board who, at great personal inconvenience, sacrificed their valuable time and helped him in what was admittedly a very difficult task.

The difficulties of recruitment, of course, began much earlier than the interview stage. In theory, the most equitable method of inviting applications for a vacancy is to advertise for it. But practical-minded people realize that in the present state of unemployment in India, to advertise for a post carrying a salary of, say, Rs. 100 a month is to let oneself in for the superfluity of task of sifting thousands of applications. Besides, the qualifications required for a post in broadcasting are very difficult to outline in an advertisement. Broadcasting does not insist on academic qualifications, or distinguished ancestry or artistic achievements, although, of course, all these things help. Likewise, the answer to a question such as "Should a candidate have taken the B.A. degree?" is either a very hesitant and dubious "yes" or an equally hesitant and dubious "no". Either reply really means the same thing. What is really needed for broadcasting is an original turn of mind, the power of quick decision, a keen perception of the infinite possibilities of the spoken word, a certain amount of good taste, cultural contacts that are alive and progressive, and the capacity to take pains. In short, broadcasting requires a certain temperament which it is impossible to define in an advertisement. Nor are we sure that we have defined it here at all adequately. But readers of this paper are (we hope) not applying for jobs, and are therefore less likely to misunderstand us than young candidates in whom the wish is father to the thought.

For posts involving administrative responsibilities, the Controller approached Local Governments who consulted the various departments under their control and, after careful consideration, sent up their recommendations. For other posts candidates were knocked at A.I.R. Delhi, A.I.R. Calcutta, A.I.R. Madras, or any other universities in India. Every Vice-Chancellor was requested to help by nominating suitable candidates. And every one of the candidates nominated either by a Local Government or by a University was called for an interview. In addition to these, a few outside applications were received. But these were exceptions. That they were admitted at all was due to the fact that there was in each case a strong prima facie case for the candidate, a reliable satisfactory reference, previous experience of broadcasting, or a very hopeful record.

SWOLLEN STATISTICS

Exaggerated reports have appeared in the press regarding the number of applicants. One enterprising journal declared this number to be 1,291, a figure that looks remarkably precise. We should have congratulated the journal on its thoroughness were it not for the fact that the figure errs by about a thousand. The human mind has a failing for spectacular statistics, so that in casual drawing-room conversations about unemployment, etc., this figure gradually swelled to several thousands. A.I.R., however, thanks its stars that the total number of candidates was not so large as even the original newspaper figure, otherwise we should have had to ask the Board to sit for the best part of the year.

THE SHORT-WAVE DISPUTE

The argument that because long-wave plants are under projection in several parts of the world, we should also have long-wave plants only, is unconvincing and quite a lay argument. Such projection elsewhere only proves that their governments are catering to the local needs of these countries with short distances in between their borders.

Then again, no one has urged that short-wave broadcasting should replace long and medium-wave broadcasting; the demand is only for simultaneous broadcasting on both long and short waves, of all programmes from stations in India and for the remodelling of the stations at Calcutta and Madras and the improvement of transmission there. The argument that the short-wave band is overcrowded has not much force in it, if we have regard for the fact that few or very few stations are heard in India on 15 to 22, 23, 24, 25, 26 or even 27 metres; these are wavelengths which can be varied to give satisfactory results during all seasons of the year by night and day. It is inconceivable that India will not be able to get the exclusive use of four or five wave lengths among them in the international adjustment.

The short-wave broadcast station has aroused comment and criticism, and we give below a letter which might be considered typical:

"I have read with attention the article of Mr. P. J. Edmonds published in your issue of 22 June 1921 on the subject and his method of disposal of those who want short-wave broadcasting in India is somewhat surprising, coming as it does with an official air. One would like to know whether he had before him reception reports of Bombay on 31.36 metres from day and night listeners in India before he said that short-wave is a bubble. Let me tell him, and those who are of his way of thinking, that there is no fading or slipping and there is not a trace of atmospheres, and my experience is confirmed by my radio-owning friends here. The Broadcasting stations in India are built and managed with public funds and the public have a right to hear all Indian programmes with the same comfort and satisfaction with which they hear Bombay on 31.36 metres and in a way in which in a sense is equal to local reception. It gives them no satisfaction to be told that they are no professional engineers and that short-wave is a bubble when their experience tells them that it is not. Whether listeners outside India should get the same sort of reception as those in India, is a matter with which we need not worry ourselves at least for the present.

"The argument that because long-wave plants are under projection in several parts of the world, we should also have long-wave plants only, is unconvincing and quite a lay argument. Such projection elsewhere only proves that their governments are catering to the local needs of these countries with short distances in between their borders.

Then again, no one has urged that short-wave broadcasting should replace long and medium-wave broadcasting; the demand is only for simultaneous broadcasting on both long and short waves, of all programmes from stations in India and for the remodelling of the stations at Calcutta and Madras and the improvement of transmission there. The argument that the short-wave band is overcrowded has not much force in it, if we have regard for the fact that few or very few stations are heard in India on 15 to 22, 23, 24, 25, 26 or even 27 metres; these are wavelengths which can be varied to give satisfactory results during all seasons of the year by night and day. It is inconceivable that India will not be able to get the exclusive use of four or five wave lengths among them in the international adjustment. I would therefore urge that the Government experts should direct their attention to improve and remodel the stations for simultaneous broadcasting on both long and short waves and give the public their money's worth."

The question of short wave broadcasting is not so simply settled as the above letter seems to suggest and the wave lengths recommended by him are not ideal for medium-distance broadcasting.
ONE of the learned doctor’s main charges against broadcasting is that it will merely assist the Medical Department in spreading abroad forecasts—which rain after instead of before the actual rain falls. Now we readily admit that in the past the weather forecasts of the Meteorological Department have not been of much use to the cultivator because, if they reach him at all, they reached him long after the rain had come. But it is just here that we can see the real usefulness of broadcasting. Forecasts about weather or anything else demand speed in announcing them. And the radio is just the agency for that speed. Because weather forecasts were late when conveyed to the rural areas by newspaper, letter, or even telegram, it is no proof that they will be equally late when delivered by radio. Yet that is the chief argument used against broadcasting by this pessimistic critic, and on which he sums up his main conclusion that “broadcasting will leave India very much poorer than now.”

If all of India’s sons had stagnated in this medieval mire, Dr. Parameswaran would never have been able to travel in comfort in motors or trains. Take the former, for example. The primary essence for motor traffic expansion is good roads. By the greatest stretch of imagination it cannot be said that India is well served in that connection; yet, through courage and determination, the obstacles have been overcome and motor transport is becoming more popular every year. And it is a poor argument against progress to say that because in many Indian villages petrol can be found and not water, therefore motors should be banned. Yet it is on such flimsy arguments that this professor seeks to banish broadcasting from India.

Broadcasting, however, is so elastic in its operative facilities, so cosmopolitan in its appeal, and so amenable to adaptation that it is the one great weapon which can be made to fit in with present Indian conditions, not to mention the capacity to improve those conditions to the good of the people. But how, as the doctor believes, radio can ruin India’s industrial activity, how it can close down our cotton factories and our steel plants and our coal mines and our paper mills and our tea gardens and our many infant industrial enterprises, is beyond our comprehension. Rather, it will make life much happier and more livable for those who previously could find neither healthy amusement nor easy recreation nor free enlightenment when they left their factories each night.

Looking back on Dr. Parameswaran’s speech we can only surmise that what his chairman’s remarks were more in the nature of a leg-pull than a real desire to strangle this baby whilst it is still struggling to reveal its potentialities. In fact, we are tempted to look upon the professor as one of those speakers who feel it their duty scrupulously to expound “the opposite view” for the sole sake of provoking discussion for the long run, will rally even the doubters to the defence of the subject which is being attacked. Hence we say, if broadcasting is going to ruin India and produce disaster, then may that ruin be hastened!

A STRANGE VIEW

H ow fortunate it is that we are not all so pessimistic and discouraging as a certain Dr. H. Parameswaran. Asked to preside over the inaugural meeting of the Physics Association held in Madras recently, at which a learned Associate Professor of Physics was to give a lecture on Broadcasting, the Chairman astounded his audience by delivering a diatribe against broadcasting. Yet the lecturer himself declared that broadcasting had great possibilities for educating people and spreading information, and in India, he said, the organisation of rural broadcasting centres was bound to lead to good results, although he issued a warning that, if improperly handled, broadcasting might also be an agency for evil. But, he concluded, “no nation can be considered modern if it does not have an efficient broadcasting service, and, judging from present conditions, India has a bright future as there is such vast scope in this country for its development.” That is the kind of thing we like to hear, for it shows clarity of vision, foresight, courage, and enterprise.

But then came the wet blanket. Scarcely had the Associate Professor of Physics sat down than the Professor of Physics stood up, declaring that while he did not wish to minimise the great benefits that had been derived from a lecture on broadcasting, he was rather doubtful whether it was suited to India under present conditions. And why? Because “the factors that helped its rapid growth and made it a power for good in the West are utterly absent in this country.” And then, to complete his denunciation, he thundered: “In a country like India, the introduction of the amenities of civilisation like broadcasting will ruin our industries. If we commit the mistake of trying to civilise Indian villages by importing these western ideas, I fear the result will ruin our industries.”

We are not even sure if our correspondent Dr. H. Parameswaran will yet live to love broadcasting and, if his views prove to have been premature, it will be a bitter irony for him long after the rain had come. But it is just here that we can see the real usefulness of broadcasting. Forecasts about weather or anything else demand speed in announcing them. And the radio is just the agency for that speed. Because weather forecasts were late when conveyed to the rural areas by newspaper, letter, or even telegram, it is no proof that they will be equally late when delivered by radio. Yet that is the chief argument used against broadcasting by this pessimistic critic, and on which he sums up his main conclusion that “broadcasting will leave India very much poorer than now.”

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THE INDIAN LISTENER

SEPTEMBER 22, 1936.

RETURNING to the subject of readers’ difficulties, we would like to make it very clear that it is absolutely impossible for us, as the official organ of All-India Radio, to give any advice, technical or otherwise, on the best receiving set to purchase. Apart from the fact that local conditions would render such advice very difficult, there is the additional, and more important, fact that it would be grossly improper for the organ of a Government service to single out one particular firm or product for special mention. We would therefore urge our readers not to write to us either for information about “ the best set ” or for literature dealing with any particular model. We referred to this matter in our answer to Problem No. 1 in last issue, but as we are still receiving queries in the same connection, we are here drawing pointed attention to our attitude.

But that does not mean that listeners should make no mention of the name or model number of their set when asking for advice about purely technical problems. Indeed, in many cases, such details are essential, for they assist us very materially in deciding the most likely defects in the set. But in all cases, listeners must remember that our advice is purely advisory. In some cases the obvious thing to do in case of trouble is to write to the dealer or manufacturers, for these is an increasing tendency among radio suppliers to give all possible assistance in solving local troubles. We admit that “ service ” is not yet all that it could be; in some areas, indeed, there is no such thing as service, but we also recognise that in India the problems of the manufacturers and dealers are just as many, and just as difficult, as those which face the Controller and the Station Directors.

However, the days are gone when the leading dealers believed that their duty was done and their responsibility closed with the sale of a set. Servicing radio sets has become a new and profitable profession in western lands, and we look forward to the time when it will be equally so in India. Until then, listeners must look to our own Technical Service Department and to the dealers to help them solve their problems.

OUR LISTENERS’ VIEWS

A CORRESPONDENT complains that we have deliberately gagged all our listeners because we “ refuse to publish the contents of letters sent to the Editor.” Now an accusation like that demands respect, although we would hasten to assure every correspondent that there has been no such thing as “ refusing ” to publish extracts from letters. We are not the guilty parties, but as we are still receiving queries in the same connection, we are here drawing pointed attention to our attitude.

But that does not mean that listeners should make no mention of the name or model number of their set when asking for advice about purely technical problems. Indeed, in many cases, such details are essential, for they assist us very materially in deciding the most likely defects in the set. But in all cases, listeners must remember that our advice is purely advisory. In some cases the obvious thing to do in case of trouble is to write to the dealer or manufacturers, for these is an increasing tendency among radio suppliers to give all possible assistance in solving local troubles. We admit that “ service ” is not yet all that it could be; in some areas, indeed, there is no such thing as service, but we also recognise that in India the problems of the manufacturers and dealers are just as many, and just as difficult, as those which face the Controller and the Station Directors.

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Our Technical Service Department and our Short-wave Station Time-Table, to mention only two new features, have already proved very popular; and in our anxiety to provide readers with such necessary information we have been too sanguine (for these are days of economy, remember) that we decided to omit extracts from letters from readers. But
as that feature is wanted, we are planning to revive it in the near future, although what shall be omitted to make room for it has yet to be decided. Sufficient unto the day is the evil thereof!

But let not our readers feel that their letters are ignored. Oh no! We read all of them with the greatest interest; we reply to dozens of them in order to establish personal contact with interested correspondents; and we preserve some of them for mention in these notes when we feel that "lighter" material is needed. Here are two such.

One reader, writing to ask us to convey to Bombay Station his thanks for the broadcast of the play "Canaries Sometime Sing," becomes so inspired by the thought of music that he plaintively asks: "Why don't you give us a bagpipe recital? If no pipers are available in Bombay, then gramophone records will do, for there is nothing like hearing one's mother-tongue when isolated in the wilds." We have passed on the suggestion,—and our duty is done.

We too, in response to what bagpipes are put on the air, or do we guarantee to publish the views of non-Scotchmen on such an item. We will not even reveal the province from which this request has come. All we hope is that on the evening when this bagpipe recital is given (if it ever is given), the air is free from atmospheric,—although we presume that there are not a few listeners who will tell us that, with half a dozen full-chested pipers in full blast, atmospherics will either be completely drowned or else indistinguishable from the actual music.

Another reader, thanking us for a certain series of artists, writes: "Let me congratulate the station on its noise. It was marvellous. Let us have lots of it." Presumably this enthusiastic listener was referring to the signal strength of certain of the short-wave transmissions; but it certainly gave us a shock to read his letter so bluntly speaking of noise, particularly in the midst of what we thought were notoriously unkind to radio transmitters.

RETROSPECT

We have received from the Delhi Station Director some interesting notes about recent programmes sent out from that station. He says, for example, that congratulations have been showered upon them for their Hindustani plays, one play in particular, "Taleem Zada Dilwai," being last week as the best method of educating wires in their duties towards their husbands! (Who said that broadcasting was not useful?) Letters from listeners have clearly shown, moreover, that the average Indian prefers light plays at night, evidently because he does not like his nerves set on edge by blood-curdling shudderers just before going to bed. We certainly appreciate this viewpoint.

Delhi also informs us that listeners were most appreciative of the Solono Day Celebrations, the songs by Narayan Rao Vyas, the literary criticism of the famous Urdu poet Ustad Khandan by Professor Rashid Ahmad Siddiqi, and the broadcast of the anniversary of the birth of Tulsi Das, for the latter programme, some interesting written appreciations of the poet and his work (asked for over the microphone) were received from Seth G. D. Birla, Dr. Bhagwan Das, and Dr. S. N. A. Jaffri, their letters being incorporated in the programme.

ETHEREAL DEBATES

DELHI once again offers something new in broadcasting programmes, namely, debates conducted from two centres, Delhi and Simla. One of the advantages of running two studios is that, with a little enterprise, use can be made of them simultaneously, and so during the coming days we shall be able to listen to various debates with one of the speakers sitting on the Olympian heights of Simla and the other contesting perspiring in the stuffy atmosphere of our Delhi studio. Considerable technical preparation is needed to ensure that such a debate is successful from the broadcast point of view, not to mention the rather unnerving experience of the debaters in having to reply to arguments which are hurled at them through the ether. Debating over the microphone is difficult enough when you can see your opponent sitting on the other side of the table, or at the far end of the studio; but it is considerably more difficult when the debate has to be carried out with your rivalalker hundreds of miles away, and with an invisible audience to add to the apparent artificiality of the performance. All praise, therefore, to those debaters who have undertaken such a task, and we feel sure that their efforts will meet with the appreciation of all listeners.

Delhi has also started a number of talks "in series," and on many different topics. The generic titles are in themselves attractive: "Unwillingly to School," "The Jungle Book," and "The Vanishing Past," to mention but three of them. And all of them are of considerable instructional value, in spite of their "popular" appearance.

And as for music, Delhi not only welcomes back the band of the 8th Punjab Regiment for a short time, but also keeps up its chain of studio concerts, including two concert-revsues of the type which is so popular in the B.B.C. programmes. What a sudden discovery of new talent has been made in North India!

WELL DONE, CALCUTTA

WHILST referring to "some of the finest running commentaries" of the year, given by the B.B.C. during the recent Test Matches and the Wimbledon Tennis Tournament, a very well-known daily of Calcutta handed out this little bouquet to India: "In this section our own Calcutta station deserves a word of special praise for the descriptions which Bertie Meyer and L. W. E. Clark have given us of the League and Shield Football matches. Of great interest to all football enthusiasts unable to attend in person, these transmissions must have greatly delighted the military units up-country whose teams were taking part in the tournament in Calcutta. Well done, Calcutta Commentators!"

Such a tribute as that, well deserved though it may be, comes as a pleasant relief to the carping criticism which we so often read in the daily press, although we are certain that with football becoming so popular a game all over the country, Indian sportsmen as well as military stay-at-home appreciate these football commentaries.

A Problem Picture

In sending this photo, a Simla reader says that "it shows the great interest being taken by the kiddies in broadcasting." Perhaps so!

But if so, then the modern generation has developed a new way of showing interest, and if not, what is the little girl really interested in at the moment?

At any rate, with a number of visiting teams in Bombay, the relays of the Rovers Cup matches have brought forth many a word of praise from Indian listeners. One Indian gentleman, in fact, has written telling us how he experienced "the first television of a football match in India." It appears that he lives in a house the verandah of which overlooks the football ground at a distance of about 600 feet. By standing on the verandah with a pair of field glasses, and turning on the wireless at the same time, he was able, he says, to follow the match with considerably more comfort and understanding than if he had been in the Grand Stands, especially as an expert (who has referred to semi-finals in the Association Cup in England) was giving the commentary. That surely is the nearest we shall come to television in India for a long time.

ANOTHER SCOOP

We mentioned in these notes last issue that Calcutta had obtained the best "news scoop" of the year. Now we hear that they have followed that up with yet another. During the first part of August a surprise item was put in, "With Byrd to the South Pole," the talk being given by Mr. A. B. Creagh, who accompanied Admiral Byrd to the Antarctic in 1928 and 1933. Mr. Creagh spoke on subjects of which we in India know but little, such as living conditions at the Pole, messages by radio from wives and sweethearts, the training of "huskies" to pull sledges, the habits of the peculiar penguin, and the successes and failures attending an expedition which seeks to overcome the tremendous difficulties caused by perpetual ice and snow. "It is so cold there," said Mr. Creagh, "that you positively can't catch cold."

A feature of the talk was the asking of a number of questions on behalf of listeners. These were broadcast immediately the talk itself was completed.

Plan of the Cooperage Football Ground at Bombay for listeners who want to hear the Rovers Cup Relays on September 1, 2, 3 and 5.
alcoholic drinks with you while on this expedition?" "No," answered Mr. Creagh thirstily; "alcohol was strictly forbidden, and was only used for medicinal purposes. And it was a peculiar thing," he added, "how ill I used to feel every evening."

Surely Calcutta bears the palm for novelty in talks,—an Everest snow-climber one month and a South Pole snow-trudger the next month. Another topical talk which created much interest was that by the famous boxer, "Gunboat Jack," who outlined some of his experiences in the ring. And at the end of the talk he whispered to one of the Calcutta staff that he was more afraid of being knocked flat by the Mike than he had ever been when fighting for a championship. And this is surely an admission from a boxer who has more than 500 victories to his credit and who has been beaten only twice in his career.

Did the Mike Scare Him?

MORE NEW FEATURES

LOOKING through Bombay’s programmes in this issue we see several very attractive items, some of which, indeed, are new to the station. For example, for the first time there is to be put on the air a concert of Plectrum music by the Bombay Banjo, Mandolin, and Guitar Club. It will be under the direction of Edna Windsor who has frequently broadcast banjo solos from Bombay. Another item of considerable musical interest is the beginning of a series of talks on Music illustrated by gramophone records. The instructor will be Mr. Peter Johnson.

September the sixth is the Parsee New Year, so a special programme has been arranged, including music by Professor Franz’s Trio and a recital by Ken Mac’s Band. There will, of course, also be selected talks, including one very interesting description by Major Bajaj of the way in which the old Persian Shahs celebrated their Navroz.

For the sporting section of listeners, there will be commentaries on the semi-finals and the final of the Rovers Cup, the talking being done by E. J. Turner, the Honorary Secretary of the Western India Football Association.

Two new dramas, especially written for broadcasting, form the chief features of the Indian programmes, and will be played on the fifth and sixth. One will be in Marathi and one in Gujarati, whilst a South Indian rough will be given to the programmes by the engagement of the popular artiste, Lalita Venkstrom. So insistent has been the demand from places as far away as Rangoon for this lady and her Veena to be put on short-wave that Bombay is acceding to the request to broadcast her programme on 31.56.

REPORT OF THE I.E.E. COMMITTEE

IN 1933 the Council of the Institution of Electrical Engineers appointed a "preparatory Committee" to review the subject of interference with radio reception. This Committee reported in April, 1933, and as a result of this preliminary report, the Council of the Institution appointed a representative Committee, which has just presented its final report and recommendations on the problem. The terms of reference of the Committee were as follows:

(a) To consider the report (drawn up by the Preparatory Committee appointed by the Council) setting out the problems to be solved.

(b) To make recommendations as to the steps, if any, to be taken to secure the elimination or mitigation of electrical interference with radio reception.

(c) In connection with (b) above, the Committee is requested to consider, inter alia, the following specific matters:

(i) The degree of immunity of each type of apparatus, and the degree of interference-free operation of a type of electrical plant and the best means for its elimination.

(ii) The desirability of embodying in specifications for new plant the requirements for interference suppression.

(iii) The desirability, or otherwise, of legislation. The Committee shows in its report that it has not merely been studying the subject, but has stimulated action by various bodies with a view to settling such questions as standards and the measurement of interference. The Committee has also encouraged as far as was possible the application of radio interference suppression devices.

No proposals are made to clear the ether of interference such as would disturb the reception of weak stations where considerable amplification has to be resorted to at the receiver, prevaricating because it is considered that the first consideration must be to make reception of the local B.B.C. stations clear of interference. The proposal in the report is that there should be a difference of at least 40 decibels between the strength of the wanted signal and the interfering field—that is, assuming the wanted signal to be of the order of 1 m V,Im, modulated 80 per cent. A method of measurement has been agreed upon, and instruments have been developed capable of indicating with sufficient accuracy the degree of interference.

With the introduction of a television service, automobile ignition systems may be found to cause interference, but it is stated that the degree of trouble to be experienced from this source cannot be known until the television service begins. It is pointed out that traffic signals, which would ordinarily have been serious offenders in the matter of interference, have from the start been made interference-free, complying with a British Standard Specification approved by the Ministry of Transport. A second source in which much progress has been made is that of trolley buses, where, again, the Ministry of Transport has acted.

Perhaps the most important view expressed in the whole of the Committee's report is that which relates to compulsory powers to ensure that the remedies are applied to interfering equipment. This section is therefore quoted in full:

"As it became clear to us that the various technical aspects of the problem were approaching solution, we felt we ought to give renewed consideration to the important question whether compulsory powers should be conferred on the authorities to require radio-interference suppression in cases in which it is impossible to do so voluntarily, it was decided that this would not be achieved effectively without the application of such powers. It became evident from the discussions of the Committee that the majority of members did not consider that effective interference suppression would result if the majority of the position were to be left solely to voluntary effort. The manufacturers of appliances and plant which are liable to cause interference definitely support this view, and they consider that there should be some recognised Mark which could be affixed to all portable appliances as a guarantee that such appliances comply with the requirements, and that the sale of appliances which do not meet with these requirements should be prohibited. Further, it is essential that imported articles should be subject to the same regulations as home-produced articles and should bear the Mark, and it is only through legislation that this question can be dealt with successfully."

The Committee in its recommendations differentiates between existing apparatus already installed and new equipment offered for sale. The cost of correcting existing apparatus, it is pointed out, is undoubtedly higher than the cost involved if the apparatus is initially designed to be interference-free. In a very large number of cases where the Post Office has dealt with complaints by listeners of interference from local electrical apparatus, the owners of the apparatus have been willing to meet the cost of fitting suppressing devices, and it is only in a comparatively small number of cases that the owners have refused. It is suggested that whilst regulations can fairly be made which will make it compulsory for all new equipment to be interference-free, it is a question of general ethics whether it would be right to compel the owner of existing apparatus to correct it at his own expense. Failure to maintain apparatus in good condition is regarded as an instance where the owner should be held responsible. The Committee expresses the hope that every encouragement will be given to the goodwill already shown by most owners in voluntarily correcting existing apparatus.

OTHER RECOMMENDATIONS.

The report concludes with a list of recommendations, the first of which is that the Electricity Commissioners should be given powers to issue Regulations to suppress interference with radio reception caused both by new and existing electrical appliances, plant or machinery; the Commissioners to have power to require a distinguishing mark to appear on apparatus to be sold after dates to be stated, as a guarantee that it complies with the regulations; this distinguishing Mark to apply to imported as well as British-made apparatus. The Post Office, it is recommended, should have powers to enforce the application of the regulations made by the Electricity Commissioners.
FREE ENTRIES

CLOSING DATE
SEPTEMBER 4th.

CLUES ACROSS
1. Do this into the Clues and you'll find the correct answers.
2. Voluble
3. Marks of distinction conferred by universities
4. Walking through water is termed.
5. Marks of distinction conferred by universities
6. Full account of this is often broadcast.
7. An official proclamation
8. Foreign
9. Many a youngster comes to grief through associating with the wrong kind of people.
10. Bachelors, be cautious with the girl who appears to be this!
11. Quarrelsome man is easily upset by.
12. Series of years
13. Young man who is inclined to do this is seldom popular with either his colleagues or employers.
14. Many a person does this without profiting by it.
15. Baby likes playing with this toy
16. Blessed indeed is the man who is equipped with this tool.
17. Conjunction signifying addition or repetition
18. Uniting and SPECIAL GIFT for each One Error winner.
19. There are sure to be these markets.
20. To dry or smoke
21. Associated with dirty work
22. Wrath
23. Premium paid for the use of money.
24. Jumbled spelling of "fished".
25. Children love being given a new one.
26. Few of us relish tackling a tough one.
27. Plural of "is"
28. To snuggle
29. Many Englishmen are tempted to life of this profession.
30. Reversed spelling of a commonplace.
31. Play-house
32. Successful tub-thumpers are able to do this unstrainingly.
33. Few of us relish tackling a tough one.
34. Falling prices in share markets are often caused by.
35. Successful tub-thumpers are able to do this unstrainingly.
36. Successful tub-thumpers are able to do this unstrainingly.

CLUES DOWN
1. To many a man who weds too hastily marriage soon becomes.
2. Valuable
3. Most of us are satisfied if we get this for our money.
4. There is always a big demand for those of leading Beauty Specialists.
5. Marks of distinction conferred by universities
6. Full account of this is often broadcast.
7. Many a youngster comes to grief through associating with the wrong kind of people.
8. Man who is this often has good cause for regrets.
9. Destructive ones often prove costly to neglectful landlords.

For full particulars see "THE ILLUSTRATED WEEKLY OF INDIA" of AUGUST 16th or 23rd.

Supreme Performance, Output & Tone at low cost

Ultramar, Model 702, is a splendid receiver to possess! It is equipped with new-type metal valves, ensuring clear, accurate reproduction ... and has tuning range of from 17 to 2000 metres in 3 bands. It may be operated from 110-125 or 220-250 volts, A.C. or D.C.

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INDIAN LISTENER

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ALL THE ABOVE RATES ARE PAYABLE IN ADVANCE
From Microphone to Receiver

How do the Programmes actually get to my Loudspeaker?

Many listeners have asked this question, but have not succeeded in obtaining a satisfactory answer. In fact, it is no easy matter to answer the question without employing technical language which the ordinary listener is not familiar with. In this new series of articles, which we are reprints from "World Radio," an attempt is made to supply an answer which the ordinary intelligent reader can understand. The passage of a programme from the microphone to loudspeaker will be traced out and described in non-technical language, and photographs will be used in place of diagrams wherever possible to illustrate the articles.

MICROPHONES

First of all, then, in the broadcasting chain we require a device which will convert sound waves, i.e., air vibrations, into corresponding electrical vibrations. The device used for this purpose is the microphone. It consists essentially of a thin disc or diaphragm which is caused to vibrate backwards and forwards by any air vibrations which reach it. The vibrations of the diaphragm are communicated to an electrical circuit and set up corresponding vibrations in an electric current which is flowing through this circuit from a battery.

These electrical vibrations are simply changes in the strength of the current. As the diaphragm moves backwards and forwards, the strength of the current is made to increase and decrease in a corresponding manner.

FROM MICROPHONE TO RECEIVER

Although this is the general principle of all microphones, the actual method by which the vibrations of the diaphragm are made to produce corresponding changes in the value of the current varies in different types. In the carbon microphone used in the early days of broadcasting and in the ordinary telephone, and still used quite extensively for broadcasting purposes, the diaphragm is in contact with small granules of carbon which are packed in a recess behind it. As the diaphragm vibrates, the carbon granules are packed alternately more tightly and more loosely, and as they form part of the circuit through which the current is flowing they cause corresponding changes in the strength of the current.

In the moving-coil type of microphone a small coil of wire is attached to the diaphragm and moves near the poles of a magnet as the diaphragm vibrates, thereby causing corresponding electric currents to be induced in the coil.

Another type is the condenser microphone, in which a metal diaphragm is mounted close to a fixed metal plate and the two are charged up by a battery. The amount of electricity stored by the two plates changes as the distance between them varies when the diaphragm vibrates, and causes corresponding changes in the current in the battery circuit.

Before we go on to see what happens to the electrical vibrations into which the sound waves have been converted, there are several points regarding the position of the microphone which are of interest.

CORRECT BALANCE

The microphone, of course, takes the place of the listener’s ear. It will only be affected by sounds which reach its diaphragm, so the position of the microphone must be chosen so that it picks up those sounds which it is intended the listener should hear, and in the correct proportions. For example, if the microphone were placed close to the trombone of an orchestra, the sounds from the trombone would drown everything else. It will be seen, therefore, that the choice of the position of the microphone is of great importance if a correct “balance” is to be obtained.

In addition, the microphone must not be too far away from the source of sounds it is desired to pick up, or it may be affected by other un-
Music Recitals and Concerts.

H. E. The Viceroy's Orchestra.
September 2nd and 9th, from Delhi.

Plectrum Variety Concerts.
September 2nd and 12th, from Bombay.

Instrumental Concert by 4/8th Punjab Regt.
September 3rd, from Delhi.

Bengali Recital of Mixed Music.
September 3rd, from Calcutta.

The Nomads Vaudeville Party.
September 4th, from Delhi.

G. M. Symphony Orchestra.
September 5th, from Bombay.

Studio Concerts.
September 6th and 7th, from Delhi.

G. I. P. String Band Concert.
September 6th, from Bombay.

Song Recital.
September 7th, from Bombay.

Cabaret Nights Vaudeville.
September 7th, from Calcutta.

The Franz Trio.
September 8th, from Bombay.

Choral Recital in St. John's Church.
September 8th, from Calcutta.

The Apple Dumplings Concert Party.
September 11th, from Delhi.

Band of the Devonshire Regt.
September 15th, from Calcutta.

Commentaries.

Rovers Cup Football Tournament
September 1st, 2nd, 3rd and 5th, from Bombay.

This is Sebastian Vaz and his orchestra, another group of musicians who enliven the air with their melody.

Here are the 35 talented musicians who form the band of St. Mary's High School, Bombay. They are broadcast on Sept. 13th.

GRETEL SOMMER, the popular Bombay Violinist, who once again figures in our programmes.
in Radio Fare

Talks and Debates.

Is the Present Education System Ineffective?
Debate on September 1st, from Delhi.

"The Jungle Book."
September 3rd and 10th, from Delhi.

"The Population of India and Birth Control."
September 4th, from Bombay.

"Is Spiritual Healing More Effective than Medicine?"
Debate on September 5th, from Delhi.

"Does Education Make for Happiness?"
Debate on September 5th, from Delhi.

"The Influence of English Literature."
September 11th, from Bombay.

"A Few Principles of Hindu Philosophy."
September 11th, from Calcutta.

"Is the Present System of Education Consistent with the Ideals of Young India?"
Debate on September 12th, from Delhi.

"The Village as I See It."
September 15th, from Delhi.

Special Features.

Atul Prosad Memorial Programme.
September 1st, from Calcutta.

Comedy: "Chandal Choukdi."
September 4th, from Bombay.

Drama: "Pathyra Sathee."
September 4th, from Calcutta.

Play: "Salome."
September 5th, from Delhi.

Parsee New Year.
September 6th, from Bombay.

Musical Echo: "On Hill and Dale."
September 9th, from Calcutta.

Khordad Sal Celebration.
September 11th, from Bombay.

Stars of the Air

Here we have Mehti Mehta, a very popular Bombay broadcaster. From all appearances, his speciality is the violin.

And this is Hubert A. Sander, who will conduct and solo on Sept. 11th, a most revised musical review. And believe it or not, his two plays this fall.

This is Sadie Whitmarsh, a comedienne responsible for some delightful vaudeville concerts. You have an opportunity to hear her again on Sept. 4th, from Simla.

These three artists will help to celebrate the Parsee New Year on Sept. 6th. Make a point of listening to them.

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Model T9-8 is similar to Model T9-7 except in the tuning range which is from 155—320 kcs. 530—1500 kcs. and 400—18000 kcs. There is also slight modification in the tuned circuits to provide for the long wavebands.

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A.C. Model T9-9; 9 tubes Magic Brain, Magic Eye and Metal tubes. Three wave bands 140-410 kcs., 540-1800 kcs. and 5400-18000 kcs. and the important 16, 19, 25, 31, and 49 metre bands. Easy tuning by the colour band dial and the colour band indicator.

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A. H. Benali, Proprietor, Durban Radio House, HYDERABAD De.
Deki Basy, BHAVNAGAR.
Siva General Stores, MADAPATAM, (Kistna & West Godavari Dist.).

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The Indian Listener
Licenses for Amateurs

RULES GOVERNING EXPERIMENTAL WORK

A communique issued by the Director-General of Posts and Telegraphs, on Experimental Wireless Transmitting Licenses, states that licenses to carry out experimental work in wireless transmission are granted by the Director-General of Posts and Telegraphs, subject to the concurrence of the Local Government of the Province in which it is proposed to work the apparatus. Applicants are required to state the experimental work they propose and to supply evidence that they are competent to carry it out.

In the past such licenses have been granted comparatively freely but, owing to the increased interest in wireless and the number of listeners who are liable to be troubled by irregular wireless transmissions, it has now been decided that in future no person will be permitted to operate the transmitter of an experimental wireless station unless he is a competent wireless operator. If the licensee is not so qualified, it will be necessary for him to employ a qualified operator. This will also apply even though it is only proposed to carry out experiments in wireless telephony since it is necessary for the experimenter to understand communications taking place between other stations and any orders which he may receive from a Government station.

The speed of operating has been fixed at 16 words a minute both sending and receiving in clear English and the ordinary international telegraphy rules, 1933, and certificates of the 1st class, 2nd class or Special as prescribed in those rules will be accepted. For persons not holding those certificates a special certificate called 'Non-Commercial Operating Certificate' has been introduced. The speed required will be 16 words a minute which is the same as that required for the International Special Certificate but the standard will be considerably lower. Thus the test will be in clear English instead of in code and a greater number of errors will be permitted.

Candidates will also be required to have a general knowledge of the procedure and regulations regarding the prevention of interference. The fee for the examination for a Non-Commercial Operating Certificate will be Rs. 5 and arrangements are being made for the examination to be held at the headquarters of any postal circle.

For the present, however, enquiries regarding this examination should be addressed to the office of the Director-General of Posts and Telegraphs (Wireless Branch), New Delhi, but the fee should not be forwarded until asked for. Unless satisfactory evidence of technical ability is supplied, applicants for experimental transmitting licenses may also be required to undergo a test in their technical ability but no additional fee will be charged for this test. These new rules will apply with immediate effect in the case of new licenses but will not be applied in the case of existing licenses until they are next due for renewal.
Tuesday, 1st September

8-30 A.I.R. Orchestra. (Between the Wolf and the Dog)—“Gajar Dam.”

9-55 Allah Bandi of Hindustan. “Chaar jhar de chhahad de moori byayen.”


9-30 Time Signal. 2nd News Bulletin and Weather Report. (English)

9-45 Debate (English): “Is the present system of education ineffective?” Yes. Dr. Prem Chand Lal, Ph.D., Santiniketan. (From Simla).

10-0 Peter Mendoza and his Orchestra.

10-11 “Peter Mendoza and his Orchestra.”

11-0 Close down.

VUD 359.9 metres, 855 kc/s.

3-30 Talk (English): “Air Edelweiss from London.” By Sybil Ammitage

4-45 The Continental Quintet

5-30 Talk (English): “Air Edelweiss from London.” By Sybil Ammitage

6-45 Commercial News in English.

7-30 Sitar Solos. By Prof. Mohamed Khan.

8-0 Light Music. By Vasant Ragay. With Sarangi, Harmonium and Tabla.

VUC 370.4 metres, 810 kc/s. 49.10 metres, 6,109 kc/s.

TRANSMISSION I

8-30 Naat. By Muhammad Shaahi, Chitrak.

8-10 Allah Bandi of Hindustan. Khayal Mein ki Malhar. (From Delhi) 


8-30 Mohammad Shafi. “Mayus na yun hota tu dur aasr hota Ham kuch na tujhe kaihte maajbru aar hota.” (Hastal Mokhi).


9-0 Cotton Prices: Liverpool and New York Closures.


10-0 Close down.

TRANSMISSION II

1-0 Time Signal. A Light Variety Programme. (Recorded).

2-0 Available Market Rates.

Bromwich Deca Salon Presents:

3-30 Talk (English): “The Tealder Hill.”

4-30 Toy Opera: “The Story of Sat Rajar Dhon.”


5-40 Mohammed Shaahi. Thumri Pila.

5-50 Allah Bandi of Hindustan. "Sanwar beche re machhariya Mirjapur ki gali.”

6-0 Dance Tune:


6-30 Ist News Bulletin and Weather Report. (English)


7-0 Allah Bandi of Hindustan.

7-30 “For Villagers Only.”


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VUD 340.13 metres, 882 kc/s.

TRANSMISSION III


5-40 Mohammed Shaahi. Thumri Pila.

5-50 Allah Bandi of Hindustan. “Sanwar beche re machhariya Mirjapur ki gali.”

6-0 Dance Tune:


6-30 Ist News Bulletin and Weather Report. (English)


7-0 Allah Bandi of Hindustan.

7-30 “For Villagers Only.”


VUC 359.9 metres, 855 kc/s.


3-0 With the VUB Indian Orchestra.

4-0 School Broadcasting.


4-30 Close down.

5-30 Relay of Rovers Cup Tournament: (By kind permission of the W.I. F.A.)

6-50 H. M. V. Presents: Donark Symphony No. 5 in E Minor. (From the New World).

5-30 Close down.

7-30 Commercial News in English.

8-0 Light Music. By Vasant Ragay. With Sarangi, Harmonium and Tabla.

8-30 Talk (English): “Nonsense Verse (Readings)” By Frederick Goldberg.

9-0 News in English.

9-15 Commercial News in English.

9-30 Sitar Solos. By Prof. Mohamed Khan.


11-0 Close down.

VUC 370.4 metres, 810 kc/s. 49.10 metres, 6,109 kc/s.

All Times are given in Indian Standard Time.
Tuesday, 1st September

12-25 A Recital.
12-30 World Affairs.
12-35 "Friday Morning.
1-15 "Home from Sea.
1-45 The B.B.C. Dance Orchestra.
2-45 Dance Music.
3-45 World Affairs.

Tuesday, 8th September

12-25 A Recital.
12-30 Variety.
1-25 "Friday Morning.
2-10 The News and Announcements.
2-30 Dance Music.
3-40 The B.B.C. Orchestra.
3-45 Dance Music.
4-15 Close down.

TRANSMISSION 2.

12-25 A Programme of New Gramophone Records.
12-30 Fred Hartley and his Novelty Quintet.
12-45 Sports Talk.
1-0 Organ Recital.
1-25 The B.B.C. Dance Orchestra.

TRANSMISSION 3.

12-45 The Norris Stanley Sextet.
1-05 Beck and Aston.
1-25 Scotch Songs and Duets.
1-45 Brass Band Concert.
1-55 The B.B.C. Dance Orchestra.

TRANSMISSION 4.

12-25 A Recital.
12-30 World Affairs.
1-15 "Friday Morning.
2-10 The News and Announcements.
2-30 Dance Music.
3-40 The B.B.C. Orchestra.

FLAME (Radio Colonial)

Wavelength 19.68 m. and/or 25.24 m.
11-30 a.m. Relay from P.T.T. Transmitter. 11-50 a.m. Market Prices, Rates of Exchange. 12 noon. Records. 12-10 p.m. Relay from P.T.T. Transmitter. 12-25 p.m. Records. 1 p.m. Talk on Events in France. 1-15 p.m. Records. 1-45 p.m. News in French. 2-15 p.m. News in English. 2-30 p.m. Close down.
3-25 p.m. Day's Programme. 3-30 p.m. Relay from Radio-Paris—Concert. 4-30 p.m. News in English. 4-45 p.m. Concert—Relayed. (Cont'd.). 5-15 p.m. News in French. 5-45 p.m. Concert—Relayed. (Cont'd.). 6-30 p.m. Maritime Talk, by Bretagne. 6-40 p.m. Social Topics, by Rive. 6-50 p.m. Colonial Market Prices, Rates of Exchange. 7 p.m. Dramatic Broadcast. 8-50 p.m. Rates of Exchange and French Stock (Contd.). 8-30 p.m. Close down.
9-45 p.m. News in French, Market Prices, Rates of Exchange. 10-30 p.m. Concert—Relayed. 11-0 p.m. Relay of Radio-France (France News). 11-29 p.m. Judicial Talk, by Mr. Henri Dalmont. 11-30 p.m. Concert—Relayed. (Cont'd.). 12-0 midnight. News in English. 12-30 a.m. News in French, Market Prices. 1-4 a.m. Federal Broadcast Concert. 3-30 a.m. Close down.

ITALY (Rome)

Wavelength 25.40 and/or 31.13 Metres.
5-13 p.m. Varied programmes. 6-45 p.m. Music. Talk. "Ballads—Once upon a time.", 7-30 p.m. News in English. Concert of light music. Vocal Concert—soprano Maria Barita, bass Costagnini Bartini, mezzo soprano Dina Nari. 10-0 p.m. Selections from operettas. 11-10 p.m. Concert of Arabian Music. 11-30 p.m. Varied programmes. 12-0 midnight. News in English.
TRANSMISSION 5.

GSC 15.14 Mc/s (19.82 m.), GSD 11.75 Mc/s (25.33 m.), GSS 9.51 Mc/s (31.55 m.)

9-30 The News and Announcements.

GREENCINE TIME Signalled at 9.30 p.m.

10-30 Close down.

TRANSMISSION 6.

GSC 15.14 Mc/s (19.82 m.), GSD 11.75 Mc/s (31.55 m.)

a.m.

7-30 Big Ben. "Stepping it Out." A novelty programme of dance music, with Maurice Wozniak and his Orchestra.

8-1 Walter Collins and his Light Orchestra.

8-15 A Recital. By Hebe Simpson (Soprano), Ines Di Paola, tenor Muzio Giovagnoli.

8-20 Er, der Herrlichste von alien. Schumann Song Recital by Lotte Kellermayer.

8-25 Friday Night. Italian Opera at the Coliseum. Italian Opera at the Coliseum.

8-30 Now, Ye Weary Eyelids. Church Cantata. No. 82, Ich habe genug. (I) Allegro (2) Adagio (3) Allegro assai

8-35 Three of the following frequencies will be used:

American News.

8-40 The Bournemouth Municipal Orchestra.

8-45 Big Ben. "World Affairs." In a Monastery Garden (Ketelbey). Knightsbridge March (Coates).

9-00 Soziale Musik. Raymond Walker (Baritone). Isolde Menges (Violin).


9-20 Er, der Herrlichste von alien. Schumann Song Recital by Lotte Kellermayer.

9-25 "The Nursery Wall." By Hebe Simpson (Soprano). Now Sleeps the Crimson Petal; Over the Mountains (Quilter).

9-30 Close down.

TRANSMISSION 1.

GSD 11.75 Mc/s (25.33 m.), GSS 9.51 Mc/s (31.55 m.)

a.m.


p.m.

12-15 "World Affairs." By H. V. Hodson.

12-30 Callender’s Second Band.


12-45 "Stepping it Out." A novelty programme of dance music with Maurice Wozniak and his Orchestra.

12-50 The News and Announcements.

GREENCINE TIME Signalled at 12.50 p.m.

1-00 "World Affairs." By H. V. Hodson.

1-15 A Recital. By Hebe Simpson (Soprano). Now Sleeps the Crimson Petal; Over the Mountains (Quilter). Young Love Long Sleeping (Somervell). Maria Lissi (Soprano). Birth of Shakespeare (Sonnets).

2-00 The B.B.C. Empire Orchestra.


2-10 Close down.

FRANCE (Radio Colonial)

Wavelength 19.68 m., and/or 25.24 m.

11-30 a.m. Relay from P.T.T. Transmitter. 11-50 a.m. Market Prices, Rates of Exchange. 12 noon. Records 12-10 p.m. Relayed from P.T.T. Transmitter.

12-25 p.m. Records. 1-0 p.m. Talk on Events in France:

1-15 p.m. Records. 1-45 p.m. News in French. 2-15 p.m. News in French. 3-0 p.m. News in French. 4-0 p.m. News in French.

3-25 p.m. Day's Programme. 3-30 p.m. Relay from Radio-Paris—Concert. 4-30 p.m. News in English.

4-45 p.m. Concert—Relayed. (Contd.) 5-15 p.m. News in French. 5-45 p.m. Literary Talk, by Mr. Francois de Teramond. 6-0 p.m. Economic and Social Talk, by Mr. Oualid. 6-30 p.m. Colonial Market Rates. 7-0 p.m. Concert Conducted by Mr. Henri Tomasi, with Mr. Cleriaux. 7-30 p.m. Rates of Exchange and French Stock (Rentes). 8-30 p.m. Close down.

4-30 p.m. News in French and Market Prices. 10-00 p.m. Concert—Relayed. 11-00 p.m. Relay of Radio-Journal of France (French news). 12-00 a.m. Literary Talk, by Mr. Francois de Teramond. 11-30 p.m. Concert—Relayed. (Contd.) 12 midnight. News in English. 12-30 a.m. News in French. 1-15 a.m. Rates of Exchange relayed from Radio-Paris. The Internal Machine, by Jean Cocteau. 3-30 a.m. Close down.

ITALY (Rome)

Wavelength 25.400 and for 31.13 Metres.

5-13 p.m. Varied programmes. 6-45 p.m. Concert. A conversation, "The Sapri expedition and the imprisonment of Giovanni Nicolini." 7-30 p.m. News in English: Concert by the Ex-Schenoni-Saberi trio. Talk by the International Catholic Press Exhibition at the Vatican, by Count Giuseppe Dalla Torre. Vocal Concert—soprano Giuditta Cervi and tenor Gino Del Signore. 8-00 p.m. Italian Opera at the Coliseum. 8-15 p.m. Concert by the Ex-Scherzi-Saberi trio. Talk by Count Giuseppe Dalla Torre. Vocal Concert—soprano Ines Di Paola, tenor Mario Giogovanni. 11-10 p.m. Concert of Arabian Music. 11-30 p.m. Varied programmes.

All Times are given in Indian Standard Time.

August 22, 1936.
Thursday, 3rd September

p.m.


6-40 Abid Hussain of Muradabad.

9-0 Phool Chandji Bhatt. Thumri Bhim Plasi.

9-15 Abid Hussain of Muradabad.

9-30 Light Classical Music.


10-0 An Instrumental Concert.


11-0 Talk (Hindustani)." (Zafar).

11-0 Time Signal. Close down.

TRANSMISSION I.

Time Signal.

8-45 Relay of Rovers Cup Tournament. (By kind permission of the W. I. F. A.)

7-0 Children's Hour. Aonites Mahiren and Zena.

7-30 A Dance Programme.

7-45 A Violin Recital.


9-0 News in English.

9-10 Commercial News and News in Hindi.

9-30 Light Classical Music.

10-0 By Menaka of Belgaum.

S.B. Assisted By The V.U.B. Orchestra.

Close down.

VUC 370.4 metres, 810 kc/s. 49.10 metres, 6,109 kc/s.

p.m.

4-15 Talk (Gujarati): "Romance of Geographical Names." By P. D. VAKKAD.

4-30 Close down.

VUC 350.9 metres, 855 kc/s. 31.36 metres, 9565 kc/s.

p.m.

1-0 Available Market Rates.

1-10 Talk (Marathi): "The Story of Kanchanmala." By Dr. U. N. SUGAL.

1-30 Talk (English). "The Story of Sat Rajar Dhon.-No. 2." By Dr. Prescilla Sow.

1-30 Talk (Hindustani). Assisted By The V.U.B. Orchestra.

2-36 "White Horse Inn." By S. J. SOHONI. (By kind permission of the W. I. F. A.)

2-36 Musical Selections.

3-36 Talk (Bengali): "Benevolence of Women." By BISHNU SARMA.


5-36 Musical Instrument—Sarod Solo.

GOPAL CHANDRA GHURHI.

5-51 Modern Bengali Song. By UMAPATA BHATTACHARYA.

6-3 Talk (English): "The Story of Kanchanmala." By Dr. U. N. SUGAL.

6-6 Village Welfare Broadcast.

6-26 A Musical Entertainment. By the members of Basanti Vahalley.

Under the direction of Sj. GANGADHAR MUKHERJEE and Sj. NALLI KANTO LALHRI.

Vocal and Instrumental Music.

SARKA BARDAMA. CHARLI. SIBIRI KUMAR GUHA. BENKU DAS GUPTA. SARITI NERAI. AKLAP ROY. GITA MUKHERJEE. BHARATI MAITI. BHATAN. TUSHAR PAUL and BIBI SHRIDHARA. ASHIMA SETH. PIANO RECITAL. AND DEBIKA DE.

Modern Bengali Songs.

SHEILA SARKAR. SUPRITI MAITI. AMITA SARKAR. ANIMA DAS. SETAR SARKAR.

BHARATI MAITI. BHATAN. BHARATI MAITI. ANIMA DAS. BISWAS Das. BASHTI HASSAN. BASHTI HASSAN. SANTI GHOSH.

All Times are given in Indian Standard Time.
Thursday, 3rd September

TRANSMISSION 1.

p.m.
4-30 Big Ben. Variety.
4-45 The B.B.C. Welsh Orchestra. Leader, Frank Thomas; conductor, Edris Lewis. Margaret Walkenson (soprano).
5-45 Blackout. A drama by Howard Thomas. Production by John Puckler.
6-14 A Musical Interlude.
6-20 An eye-witness account of the Golf Competition for the Walker Cup. Relayed from America.
6-30 The News and Announcements.
6-50 The Philip Whiteway Ensemble. Philip Whiteway (viola). Ensemble: An April Shower at Kew (Handel, Violin Walkenson); The Merry Widow (Lubow); Philip Whiteway: Nocturne in E flat (Gounod arr. Serenate); Slavonic and Russian (Ponciano; arr. Kytrel); Swanhunter; That's My Mother; Teased Me (Dvorak; arr. Kytrel); Ensemble: The Merry Widow; Waldmeister Fair; outlet in the West Country (By, 11 Reed).
7-15 Close down.

TRANSMISSION 2.

p.m.
4-30 Big Ben. Variety.
4-45 The B.B.C. Welsh Orchestra. Leader, Frank Thomas; conductor, Edris Lewis. Margaret Walkenson (soprano).
5-45 Blackout. A drama by Howard Thomas. Production by John Puckler.
6-14 A Musical Interlude.
6-20 An eye-witness account of the Golf Competition for the Walker Cup. Relayed from America.
6-30 The News and Announcements.
6-50 The Philip Whiteway Ensemble. Philip Whiteway (viola). Ensemble: An April Shower at Kew (Handel, Violin Walkenson); The Merry Widow (Lubow); Philip Whiteway: Nocturne in E flat (Gounod arr. Serenate); Slavonic and Russian (Ponciano; arr. Kytrel); Swanhunter; That's My Mother; Teased Me (Dvorak; arr. Kytrel); Ensemble: The Merry Widow; Waldmeister Fair; outlet in the West Country (By, 11 Reed).
7-15 Close down.

TRANSMISSION 3.

p.m.
7-30 Big Ben. The Central Band of His Majesty's Royal Air Force. A programme of the Air Council, conducted by Flight-Lieut. R. P. O'Donnell, M. O., Director of Music, Royal Air Force. From the RAF Air Force Headquarters, Hendon; March, Army and Marine (Zaia); A Children's Overture (Grainger). 1936 Selection. On with the Show (Nicholls). March; and Serenade (The Italian Symphony, Mabfaba peninsula). Valor captive (Kytrel); Serenade, The Return of the Belle of New York (Kytrel)
8-30 "Pleasure on Parade."
Presented by Frank A. Terry, with additional lyrics and music by Claude Bransonn, Wlock and Rothfater, and Frank A. Terry. Nita Valerie (soprano); and Dance; Evan Dudley (saxophone); Ray Hilton (composers). Jack Street (composer); Claude Bransonn (pageant and entertainer). Jon Ramsden (violin); Edward Wood (saxophone); Ben Jones (trumpet). Gene Anderson (Light and Dance). Frank A. Terry (entertainer and composer). Madame Helena Lymburn's Young Ladies: including; W. H. Reed), (arr. M. W. Djoon), and Maryanne Harris. From the Floral Pavilion, New Brighton.
9-15 The Harp Trio.
Tina Bonifanti (violin); Harry dancer (flute); Gregory Widdowson (cello). L'heure de la Gunflint. Sehrad Love (flute). Le di che (fate) (Chamissado).
9-25 The News and Announcements.
10-45 Music.
Oscar Rubin and his Romany Band.
10-30 Close down.

TRANSMISSION 4.
Three of the following frequencies will be used.
GSC 17.99 Mc/s (16.86 m). GSH 15.14 Mc/s (23.53 m).
GSC 65.1 Mc/s (15.51 m).
p.m.
11-45 Big Ben. A Recital.
12-00 A Pianoforte Recital. By Frank Muschbinder.
1-10 Sandy Powell's Album.
2-10 The News and Announcements.
2-30 Ballad Concert.*
3-0 The Celebrity Trio.
3-35 An eye-witness account of the Golf Competition for the Walker Cup. Relayed from America.
3-45 Dance Music.
3-55 "Travel."
4-15 Close down.

GERMANY (Berlin)
10-40 a.m. Here comes the music. 11-45 a.m. Here comes the music (contd.). 12-30 p.m. News and Economic Review in English. 12-45 p.m. Today in Germany. Sound Pictures. 1-00 p.m. Rustic Cabaret. 2-15 p.m. Folk Music. 3-45 p.m. 1934 Olympic Music from the time of Charles V.
4-30 p.m. Concert of Light Music. 5-30 p.m. News in English. 5-45 p.m. Greetings to our Listeners in the Far East. 5-50 p.m. Concert of Light Music (contd.). 6-45 p.m. Chamber Music. 7-00 p.m. News and Economic Review in English on DJE, DJN 7-45 p.m. Today in Germany Sound Pictures. 8-00 p.m. A German Post from Abroad at the Microphone. Bruno Goez. 8-15 p.m. Rustic Cabaret. 9-30 p.m. Close down.

FRANCE (Radio Colonial)
Wavelength 19.68 m. and/or 25.24 m.
11-30 a.m. Relay from P.T.T. Transmitter. 11-50 a.m. Market Prices, Rates of Exchange. 12 noon. Records. 12-10 p.m. Relay from P.T.T. Transmitter.
12-25 p.m. Records. 1-00 p.m. Talk on Events in France. 1-15 p.m. Records. 1-45 p.m. News in French. 2-45 p.m. News in English. 2-30 p.m. Close down.
3-25 p.m. Day's Programme. 3-30 p.m. Relay from Radio-Paris-concert. 4-30 p.m. News in English. 4-45 p.m. Concert-Relayed (contd.). 5-45 p.m. News in French. 5-45 p.m. Concert-Relayed (contd.). 6-30 p.m. International Talk, by Mr. Jacques Kayser. 6-40 p.m. Talk on Music, by Mr. Charles Oulm. 6-50 p.m. Colonial Market Prices, Rates of Exchange. 7-45 p.m. Concert. Chamber Music, with the Cases-Novello Ladies' Ensemble, and Miss Vincent, vocalist. 8-25 p.m. Rates of Exchange and French Stock (Kotens). 8-30 p.m. Close down.

HOLLAND (Phoehi)
Wavelength 25.40 and/or 31.13 Metres.
5-13 p.m. Varied programmes. 6-45 p.m. Concert. "Italian Songballad". 7-30 p.m. News in English. Piano concert—Caudita Sartoris. Vocal concert—supra Mrs. Baratta, baritone Luigi Bernardi. 8-45 p.m. Concert. The Gala orchestra light music. Vocal concert—supra Lucy Larsser, tenor Nino Massotti. 11-10 p.m. Concert of Arabic music. 11-30 p.m. Varied programmes.

ITALY (Rome)
Wavelength 25.40 and/or 31.13 Metres.
5-13 p.m. Varied programmes. 6-45 p.m. Concert. Talk. "Italian Songballad". 7-30 p.m. News in English. Piano concert—Caudita Sartoris. Vocal concert—supra Mrs. Baratta, baritone Luigi Bernardi. 8-45 p.m. Concert. The Gala orchestra light music. Vocal concert—supra Lucy Larsser, tenor Nino Massotti. 11-10 p.m. Concert of Arabic music. 11-30 p.m. Varied programmes.

All Times are given in Indian Standard Time.
VUB 340.13 metres, 882 kc/s.

TRANSMISSION I.

8-00

Time Signal.

Bhajan. By LACHCHI RAM with chaut.

(Companied by A. I. R. Orchestra.)

8-10 Rashid Ahmad of Ajmer. Thumri Bhairav.

8-20 Gulham Sabir. Swargi—Bhulal Khan.

8-25 Mumtaz Begum (Film Actress). Thumri Jogia.

8-35 Lachhi Ram. Thumri Desi.


By Prof. Munir.

No. 1.

9-00 Cotton Prices: Liverpool and New York Closing.


9-10 Rashid Ahmad of Ajmer. Quawwals.

Supported by A. I. R. Artists.

9-30 Mumtaz Begum (Film Actress).

"Utter men bharit hain wada ho koh jafa ho.

Har bat men lazat hai agar dil men maza ho."

(Amit Minad).


9-50 Rashid Ahmad of Ajmer.

"Har Shain men chhipi ke baith gai hai woh nazar se

Pardah utai deta haan parde ke raz se."

(End of music).

10:00 Close down.

TRANSMISSION II.

P.M.

1-00 Indian Recorded Music.

2-00 Close down.

TRANSMISSION III.

5-30 Time Signal.


5-40 Lachhi Ram. Khagol Puriya Dhanari.

5-50 Mumtaz Begum (Film Actress).

"Aa r aur kare quwwat hai zuban ko.

Dilon ko is se quwwat hai zuban ko sahara hai.

"Kho da nam raushan hai Kho da nam piara hai,

Lab aashna-i-dua hain na ma siwa ke liye

Pukariye jo Kho da kaito to bas Kho da ke liye."

(Amit Minad).

6-00 Haider Hussain of Jaipur. Sitar—Basant.

6-10 Rashid Ahmad of Ajmer.

"Khuda ka nur na raushan baihi Kho da ke liye

Pukariye jo Kho da kaito to bas Kho da ke liye.

(Park Minad).


6-40 Hamid Hussain.

"Lab na khurjaau ho na ma siwa ke liye

Pardah utai deta haan parde ke raz se.

(Amit Minad).

6-50 Mumtaz Begum (Film Actress). Thumri Pitu.

7-00 P. M. Kijerji. Sa ed—Kafi.

7-5 Rashid Ahmad of Ajmer. Qawwals.

8-00 Lachhi Ram. Khagol Shubh Kalyan.

7-30 For Villagers Only.

8-30 Talk (Hindustani): "Elements of redundancy. No.1—

What is Redox?

By S. GOPALAN.

8-45 Hill Folk Song. By Lachchi Ram.


9-7 Mumtaz Begum (Film Actress).

"Khatoor i na paila pashman hain.

Mohabat ko mazar saas."

(End).


(English).

9-45 "Talk (English): "Labour conditions in Simla."

By K. L. H. WADLEY, I.I.E.

Wednesday, 2nd September

P.M.

10-00 "An Orchestral Programme.

By His Excellency the Viceroy’s Orchestra.

(End permission of His Excellency the Marquess

of Linlithgow).

Directed by Lt. C. H. FENNER, M.B.E., L.R.A.M.

The War March of the Priests.

Malta. Overture —

No. 2, in F

Kalimair.

Selection from the Opera—

Mensur Ender.

Mandolin Rhapsody. No.

Mandolin Recital.

Cello Solo —

La Cypriote. Saint-Saens.

*Relayed from one Simla Studio.

TIME SIGNAL.

VUB 350.9 metres, 855 kc/s.

P.M.

1-00 Available Market Rates.

Jules Cren and his Quintet.

Relay of Music from Taj Mahal Hotel.

(End permission of the Management).

By E. J. GOUGH.

P. S. Mukerji. So od-Kafi.

1-30 "Chanchal Bivi."

7-15 Exposition of Gatha.

8-00 Commercial News and News in Hindi.

2-00 Selection of Indian Music.

J. G. NIMBALKAR.

"Ti Khota Bajaj Madhuri."

Mahora Dole Dassaneh Hadi.

PUNE:

Nasir Nadeem.

"Aye Jawo Awaaz.

Shama Tori Bansari.

(Ganesh).

Gandhiji Neyaz.

Kambara Bade.

Amdo Mant Kabhi.

NICHOLAS.

Abu Rozy.

Hussain Ke Tawil.

MUNIR, ZIYAD, AND SABAH.

"Qaawid Nusrat Aga.

Qaawid Nusrat Aga.

KALIM AIR.

"Yeh Bah Jaha Jalbi Hai."

Mat Jyotyata Par Teli.

NAYAK: Bad Vidas.

H.M.V. Records.

4-00 Ladies’ Hour Talk: "Favou itses"

By HILDA FLANDERS.

4-30 Close down.

5-30 Relay of Rovers Cup Tournament.

(End permission of the W. I. F. A."

5-50 Talk (Hindi): "Bat Choot.

By FATIMA BEGUJ.

7-00 Violin Recital.

By SHURIBAR PAREKAR.

7-15 Exposition of Gatha.

By ERVAD FRAMROZ A. BODE.

7-30 "Chanchal Bivi."

A Comedy in Hindi presented by Z. A. RAZ.

8-00 Commercial News and News in Hindi.

8-25 Light Music.

By K. H. WAKANAKH of Bhor.

9-30 News in English.

9-45 Talk (English). International Affairs.

By E. J. GOUGH.

10-00 A Variety Programme.

By The Bombay Bengali, Mandalin, and Guitar Club.

Leader: EDNA WINDSOR.

p.m.

THE COLLINS BROTHERS AND C. ROUSE. - Plecsin Quaret.

PETER ROUSE - - Blasfret.

EDWA WINDSOR AND THE COLLINS BROTHERS - Hawaiian Trio.

LACHMUR LYNCH, RORY FISCHEL, AND FRANCISCO COLLA. - Vocals.

THE B.M.G. CLUB.

March of the Bishops." (Lesoweld).

PLECSIN QUARET.

"Concerta "

"Rusiaiana."

HAWAIIAN TRIO.

"Hawaiana.

HAWAIIAN TRIO.

"More Hawaiian Melodies."

PLECSIN QUARET.

"More Hawaiian Melodies."

p.m.

The Indian Listener

12-36 "A Vocal and Orchestral Programme from the Studio.

1-0 Talk (English): "The Coinage of British India No. 2."

By G. HART.

(List of bulletins, Calcutta Mint.)

1-20 *Orchestral Selections from the Studio.

SB

Calcutta Weather Bulletin for Oceancraft and Rivercraft

(till end).

1-36 Talk (Bengali): "Islam’s Contribution to Civilization

No. 1."

By SHAHABAD HASSAN.

2-0 Light Bengali Songs.

96-30 "Hawaiian Melodies."

HAWAIIAN TRIO.

"Bonnie Scotland—March."

By P. K.

2-36 Kathakata. By AMULYA KRISHNA BHATTACHARYA.

4-0 Time Signal. Close down.

4-55 News in English.

6-5 Light Bengali Songs. By PRASUNABALA.

6-21 "Pastorale."

COMPOSED AND DIRECTED BY BANKUMAR.

Music by P. K. MULLICK in collaboration with S. DUTTA GUPTA.

7-51 News in English.

8-6 Jack Holmes and His Orchestra.

SB

A Light Musical Programme.

8-51 General News Bulletin, Weather Forecast, Market

Prices, Jute and Gunny Closing Rates (In Bengali).

9-6 Vocal Music (Bengali).

SB

DHIRENDRA NATH DAS.

9-24 KALIMAILA.

9-46 Talk (Bengali): "The care and toilet of the body for

the ladies."

By Dr. PASHUPATI BHATTACHARYA.

10-6 2nd News Bulletin, Weather Forecast, Market Prices,

Jute and Gunny Closing Rates (In English).


*Grantham records.

All Times are given in Indian Standard Time.
TRANSMISSION 5.
GSC 15.31 Mc/s (9.82 m., GSD 11.75 Mc/s G5.53 m.), GSC 9.58 Mc/s (G1.32 m).

a.m.
4-30 Big Ben. A Recital.
By Harry Candy (Baritone).

5-15 A Recital.
By Hebe Simpson (Soprano). New Shakes the Grimlet Poul; Over the Mountains (Quilter). Fiery Song (Robert Brough). Young Love Lays Sleeping (Sommervell). North my Latitude (Sheppard). Birth of Moon (Moon). Swann did (Strawson).

5-30 The B.B.C. Empire Orchestra.

6-30 The News and Announcements.

6-50 A Musical Interlude.

6-53 "Down to the Sea in Ships : Sea Harvests (6)."
R. H. Murs.

7-15 Close down.

TRANSMISSION 1.
GSC 15.14 Mc/s (9.82 m.).

a.m.
7-30 Big Ben. A Recital.
Stepping It Out. A novelty programme of dance music, with Maurice Winick and his Orchestra.

8-1 Walter Collins and his Light Orchestra.

8-45 Orchestral Overture.

8-55 "World Affairs."
By H. V. Hudson.

9-10 The News and Announcements.

9-30 Close down.

TRANSMISSION 1.
GSC 11.75 Mc/s (G5.53 m.), GSB 9.85 Mc/s (G1.32 m).

a.m.
11-45 Big Ben. "The Nursery Wall."
Rhymes and lullabies of all countries, arranged by Crystal Pudney.

12-15 "World Affairs."
By H. V. Hudson.

12-30 Callender's Second Band.

1-25 The News and Announcements.

1-45 Close down.

TRANSMISSION 2.
GSC 21.47 Mc/s (G5.53 m.), GSB 17.98 Mc/s (G1.32 m).

p.m.
Kongensgade, Thomsen. Fantasia, Sebahyarcyes (Rahman-Koyd). Six Great Melodies: Londonedore Air; Cherry Ripe; Annie Laurie; Black Eyed Susan; Londonedore Air; Love's Last Thought; Popular Medley. Largo (The Well Symphony) (Dionisi).

1-40 "Stepping it Out."
A novelty programme of dance music with Maurice Winick and his Orchestra.

2-10 The News and Announcements.

2-20 "Round and About."

All Times are given in Indian Standard Time.

FRANCE (Radio Colonial)
Wavelength: 19.875 m., and/or 25.24 m.


12-25 p.m. Records. 1-0 p.m. Talk on Events in France. 1-15 p.m. Records. 1-45 p.m. News in French. 2-15 p.m. News in English.

3-25 p.m. Do's Programme. 3-30 p.m. Relay from Radio-Paris—Concert. 4-30 p.m. News in English. 4-45 p.m. Concert—Relayed. (Contd.) 5-15 p.m. News in French. 5-45 p.m. Concert—Relayed. (Contd.) 6-30 p.m. Literary Talk, by Mr. Charles de Tertemont. 6-45 p.m. Economic and Social Talk, by Mr. Oauad. 6-50 p.m. Colonial Market Rates. 7-0 p.m. Concert conducted by Mr. Henri Tomas, with Mr. Clarison. 8-25 p.m. Rates of Exchange and French Stock (Rentes). 8-30 p.m. Close down.

9-45 p.m. News in French and Market Prices. 10-30 p.m. Concert—Relayed. 11-0 p.m. Relay from Radio-Journal of France (French news). 11-30 p.m. Concert, D-J. 11-30 p.m. Concert—Relayed. (Contd.) 12 midnight. News in English. 12-50 p.m. News in French, Market Prices. 1-15 a.m. Relay from Radio-Pers. 2-30 a.m. Internal Message, by Jean Cocteau. 3-30 a.m. Close down.

ITALY (Rome)
Wavelength: 25.40 and/or 31.15 Metres.

5-13 p.m. Varied programmes. 6-45 p.m. Concert. A conversation. "The Sepulchre expedition and the imprisonment of Giovanni Nicotera."
"3-20 p.m. Overseas in English; "This evening, "The Intact National Catholic Press Exhibition at the Vatican, " by Count Giuseppe Della Torre. Vocal Concert—opera Castello Carmi and tenor Gino Del Sorgo. 10-40 p.m. Concert—The Earl of Essex, by Massimo Felice Risoldi. Vocal Concert, soprano Ines Di Paola, tenor Muzio Giovagnoli. 11-10 p.m. Concert of Arabian Music. 11-30 p.m. Varied programmes.

GERMANY (Berlin)

10-40 a.m. Musical Miscellany. 11-45 a.m. Musical Miscellany (contd.). 12-25 p.m. Greetings to our Listeners in India. 12-30 p.m. News and Economic Review in English. 12-45 p.m. Today in Germany. Sound Pictures. 1-0 p.m. Selections from "La Traviata" by Verdi. 2-15 p.m. Folk Songs and Dances and Our Olympic Guests brought with them. 3-15 p.m. Woman's Hour : A Talk by E. Schneider, the Animals' Photographer at the Berlin Zoo. 3-30 p.m. Er, der Herrliche von allen. "Schaumann Song Recital by Lotte Stumpf.

4-30 p.m. Concert of Light Music. 5-30 p.m. News in English. 5-45 p.m. Greetings to our Listeners in India. 5-50 p.m. News and Economic Review in English on DJE. 7-45 p.m. Today in Germany. Sound Pictures. 8-00 p.m. Selections from "La Traviata" by Verdi. 9-00 p.m. "Er, der Herrliche von allen. 9-30 p.m. Close down.

The Indian Listener
August 22, 1936.
Thursday, 3rd September

VUC 350.9 metres, 555 kc/s. 31.36 metres, 9565 kc/s.

1:30 Talk (Marathi): "Geographical Story." (Recorded)

BOMBAY

VUC 350.9 metres, 555 kc/s. 31.36 metres, 9565 kc/s.

1:0 Available Market Rates.

Parlophone Presents: HARRY ROY and MAURICE WINNICK and their ORCHESTRA assisted by LESLIE HUTCHINSON and the HENDERSON TWINS in songs and dance tunes.

2:0 Gazals.

MOHOMED HUSSAIN.

2:45 Violin Solos.

SHRIDHAR PARIKAR.

3:30 Light Songs.

RAMKRISHNA D. BHOLE.

4:0 School Broadcasting.

Talk (Marathi): "Geographical Story."
### Thursday, 3rd September

#### TRANSMISSION 2

<table>
<thead>
<tr>
<th>Time</th>
<th>Program</th>
</tr>
</thead>
<tbody>
<tr>
<td>11:30 a.m.</td>
<td>GSH 21.47 Mc/s (13:57 m.), GSH 17.79 Mc/s (16:36 m.)</td>
</tr>
<tr>
<td>4:30 p.m.</td>
<td>Big Ben. Variety.</td>
</tr>
<tr>
<td>4:45 p.m.</td>
<td>The B.B.C. Welsh Orchestra.</td>
</tr>
<tr>
<td>5:45 p.m.</td>
<td>&quot;Blackout.&quot;</td>
</tr>
<tr>
<td>6:20 p.m.</td>
<td>An eye-witness account of the Golf Competition for the Walker Cup.</td>
</tr>
</tbody>
</table>

#### TRANSMISSION 3

<table>
<thead>
<tr>
<th>Time</th>
<th>Program</th>
</tr>
</thead>
<tbody>
<tr>
<td>1:30 p.m.</td>
<td>GSH 21.47 Mc/s (13:57 m.), GSH 15.14 Mc/s (19:20 m.)</td>
</tr>
<tr>
<td>7:30 p.m.</td>
<td>Big Ben. The Central Band of His Majesty's Royal Air Force.</td>
</tr>
<tr>
<td>8:30 p.m.</td>
<td>&quot;Pleasure on Parade.&quot;</td>
</tr>
<tr>
<td>9:15 p.m.</td>
<td>The Harp Trio.</td>
</tr>
<tr>
<td>9:25 p.m.</td>
<td>The News and Announcements.</td>
</tr>
</tbody>
</table>

#### TRANSMISSION 4

<table>
<thead>
<tr>
<th>Time</th>
<th>Program</th>
</tr>
</thead>
<tbody>
<tr>
<td>10:30 p.m.</td>
<td>Three of the following frequencies will be used.</td>
</tr>
<tr>
<td>11:30 p.m.</td>
<td>GSH 17.79 Mc/s (16:36 m.), GSH 15.18 Mc/s (19:56 m.), GSH 15.14 Mc/s (19:20 m.), GSH 9.51 Mc/s (31:53 m.)</td>
</tr>
</tbody>
</table>

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**Note:** All Times are given in Indian Standard Time. The B.B.C. offers various programs as listed above. For more details, please refer to the respective time slots for specific program information.
TRANSMISSION 5.

GSP 15.31 Mc/s (19.82 m.), GSC 9.58 Mc/s (31.32 m.)

a.m.

4-30 Big Ben. The Cafe Collette Orchestra.
Directed by Henry Hall.

5-15 The B.B.C. Dance Orchestra. Selection. The Student Prince (Romberg).

6-10 The News and Announcements.

6-30 Close down.

TRANSMISSION 6.

GSP 15.14 Mc/s (19.82 m.), GSC 9.58 Mc/s (31.32 m.)

7-30 Big Ben. The B.B.C. Empire Orchestra.

8-30 An eye-witness account* of the Golf Competition for the Walker Cup. Relayed from America.

8-40 Variety.*

8-55 A Recital.


9-30 Close down.

TRANSMISSION 1.

GSD 11.75 Mc/s (25.53 m.), GSB 9.51 Mc/s (31.55 m.)

11-45 Big Ben. Classical Symphony Concert.


12-45 “Stepping it out.” A novelty programme of dance music, with Maurice Winick and his Orchestra.

1-15 An eye-witness account* of the Golf Competition for the Walker Cup. Relayed from America.

1-25 The News and Announcements.

1-45 Close down.

TRANSMISSION 2.

GSH 21.47 Mc/s (13.97 m.), GSC 17.79 Mc/s (16.86 m.)

p.m.

4-30 Big Ben. Munn and Felton’s Works Board.

5-0 “Piggin English in the South Seas.”* By Clifford Collinson.

5-15 Ben Oakley and his Band.

5-45 Variety.*

6-0 The Birmingham Hippodrome Orchestra.

6-20 An eye-witness account* of the Golf Competition for the Walker Cup.
Relayed from America.

Greenwich Time Signal at 6.30 p.m.

6-30 The News and Announcements.

6-50 Handel Programme.*

7-15 Close down.

TRANSMISSION 3.

GSH 21.47 Mc/s (13.97 m.), GSC 17.79 Mc/s (16.86 m.), GSF 15.14 Mc/s (19.82 m.)

p.m.

7-30 Big Ben. The Victor Olf Sestet.


8-15 “A Programme of Marches.” (Contd.).

9-00 The B.B.C. Northern Irish Orchestra.
Leader, Phillip Whiteway; conductor, E. Godfrey Brown. Dorothy Rodgers (Conductress).

9-25 The News and Announcements.

9-30 Greenwich Time Signal at 9.30 a.m.

9-30 Close down.

TRANSMISSION 4.

GSH 17.79 Mc/s (16.86 m.), GSF 15.14 Mc/s (19.82 m.), GSC 9.51 Mc/s (31.55 m.)

p.m.


11-2 A Sullivan Programme.

Greenwich Time Signal at 11.30 a.m.

11-30 The News and Announcements.

11-50 Musical Interlude.*


All Times are given in Indian Standard Time.
DON'T LET YOUR
"INDIAN LISTENER"
Subscription Expire.

All Times are given in Indian Standard Time.
Sunday, 6th September

VUB 350.9 metres. 855 kc/s. 31.36 metres, 9565 kc/s.

11-0 Light Classical Music.
By Khan Saheb Vilayat Husain.
With Sarangi, Sarod, and Tabla.

11-8 Close down.
* Replayed from our Simla Studio.

12-0 "Kalijasha Vikar." (Heart Trouble).
A Musical Play in Marathi specially written for Broad-casting and directed by Sangeeta Devi featuring Shanta Devi, Pushpa Devi, and others.

1-0 Ken Mac and His Dance Orchestra.
Ken Mac introducing popular tunes with vocal refrains.

4-30 Hawaiian Guitar Solos.
By G. N. Ghosh.

5-0 Light Classical Music.
By Sakeer Khan.

6-30 Church Service. Relayed from the Afghan Memorial Church, Calcutta.

7-40 A String Band Concert.


8-50 A Short Gramophone Recital of Accordion Music.
By M. Asafuddin and his Band.

9-0 News in English.

9-15 News in Hindi.

9-30 A Variety Programme.
By Shanta Kumari, in Hindustani songs.

11-0 Close down.

VUC 370.4 metres, 810 kc/s. 49.0 metres, 6,109 kc/s.

a.m.

1-36 Instrumental Music.
By the Calcutta Orchestra, conducted by Suresh Lal D. Chakravarty.

8-46 A Classical Programme.
Jyavandra Prasad Goswami—Dhrupad.

9-1 Kashi Nath Chatterjee—Khyal.

9-15 Pratap Chatterjee—Khyal and Thumri.

9-36 Instrumental Music.
The Calcutta Orchestra.

9-46 Light Bengali Songs.
Prohibathy.

10-1 Hebubar.

10-16 HARDAS BANERJEE—Humorey.

10-21 Radharaman—Kirtan.

10-46 Talk (Bengali): "Stage and Screen" By Parimal Chandra.

11-0 The Grand Hotel Orchestra.
SE Sunday Morning Concert relayed from the Palm Court of the Grand Hotel.

News in English.

p.m.


5-36 Time Signal.

5-45 Light Classical Music.
By Sakeer Khan.

6-6 Church. Service Relayed from St. John's Church.

p.m.

11-0 Light Classical Music.
By Khan Saheb Vilayat Husain.
With Sarangi, Harmonium and Tabla.

All Times are given in Indian Standard Time.
The Indian Listener

Sunday, 6th September

TRANSMISSION 1

GSD 11.75 Mc/s (25.3 m.), GSB 9.51 Mc/s (31.5 m.).

p.m.

11-50 The B.B.C. Orchestra.

12-20 A Religious Service.
(Musical), from the Wesley's Chapel, City Road, London.

1-15 A Programme of Pianoforte Music.
1-30 "If Napoleon II had been Mine. Perrom's Song." By Helen Simpson.

1-40 The Boyd Neel String Orchestra.
2-10 Weekly Newsletter.

2-30 The Boyd Neel String Orchestra.

3-0 The B.B.C. Military Band.
Conducted by William J. Matthews. Wartime Wartime (Bass).

3-40 A Schubert Recital.
4-0 Epilogue.

4-15 Close down.

* Electrical recording. † Gramophone records.

GERMANY (Berlin)

D/A 31.30. DQ 19.63. DQ 31.45. DQ 16.69.

6-30 p.m. Sunday Music. 11-45 a.m. Sunday Music (cont.)
12-20 p.m. News and Review of the Week in English. 12-45 p.m. Works by Richard Strauss; a. o. Burlesque for Piano and Orchestra. 13-30 p.m. Concert of Light Music (cont.). 14-45 p.m. Duet for Violin and Cello. 15-00 p.m. Works by Richard Strauss; a. o. Burlesque for Piano and Orchestra. 16-30 p.m. Sonatas for Cello and Piano by Ansegne.

12-50 p.m. Concert of Light Music. 12-50 p.m. News in English. 14-45 p.m. To our Listeners. 11-30 a.m. and 12-30 a.m. News and Review of the Week in English. 12-45 p.m. Works by Richard Strauss; a. o. Burlesque for Piano and Orchestra. 13-30 p.m. Concert of Light Music (cont.). 14-45 p.m. Duet for Violin and Cello. 15-00 p.m. Works by Richard Strauss; a. o. Burlesque for Piano and Orchestra. 16-30 p.m. Sonatas for Cello and Piano by Ansegne.

FRANCE (Radio Colonial)

Wavelength 19.68 m. and/or 25.24 m.

11-30 a.m. Relay from P.T.T. Transmitter. 11-50 a.m. Market Prices. 12 noon. Records. 12-10 a.m. Relay from P.T.T. Transmitter.

12-25 p.m. Records. 1-40 p.m. Talk on Events in France. 1-15 p.m. Records. 1-45 p.m. News in French. 2-15 p.m. News in English. 2-30 p.m. Close down.

2-45 p.m. Day's Programme. 3-30 p.m. Relay from Radio P.F.T. in English. 4-45 p.m. Works by Ferdinand Opper. 5-30 p.m. Concert-Relayed. (Contd.).

5-15 p.m. News in French. 5-45 p.m. Concert-Relayed. (Contd.). 6-30 p.m. Relay from P.T.T. Transmitter. 7-00 p.m. The Works Programme, by Mr. P. C. Brive. 8-30 p.m. Colonial Market Prices, Rates of Exchange. 9-00 p.m. Relay. 9-30 p.m. Close down.


HOLLAND (Phohi)

Wavelength 25.40 and/or 31.31 Metres.

5-13 p.m. Varied programmes. 6-30 p.m. Concert.

10-00 p.m. Vocal concert—soprano Myrta Limis, tenor Guido Agnolotti Romsina and Piedimonteo, songs, master of ceremonies Tito Angelotti. 11-30 p.m. Varied programmes.

ITALY (Rome)

Wavelength 24.50 and/or 31.31 Metres.

5-13 p.m. Varied programmes. 6-30 p.m. Concert.

10-00 p.m. Vocal concert—soprano Myrta Limis, tenor Guido Agnolotti Romsina and Piedimonteo, songs, master of ceremonies Tito Angelotti. 11-30 p.m. Varied programmes.

All times are given in Indian Standard Time.

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Monday, 7th September

p.m.


8.45 Afsar Hussain.

8.45 Afsar Hussain.

9.0 A. I. R. Orchestra. (Temple of Love) — "Freet ka Mandir."

9.45 Talk (English): "The Evolution of the Fiddle." By HUBERT A. MAGEE.

10.0 A Studio Concert.

10.0 A Studio Concert.

11.0 Relax from our Simla Studio.

TRANSMISSION II

p.m.

1.0 Indian Recorded Music.

2.0 Close down.

TRANSMISSION III

p.m.

1.30 Available Market Rates.

1.40 A Song Recital.

1.40 A Song Recital.

2.0 Selection of Indian Music.

3.0 Selection of Indian Music.

4.0 Time Signal.

5.0 Relay from Wellington Cinema.

8.25 Light Classical Music.

9.30 News in English.

9.45 Talk (English): "Travancore Yesterday and To-day." By SIN C. P. RAMACHANDRAN, A.I.R.

10.0 A Review of New Records.

12.0 Close down.

A. I. R. Orchestra

TRANSMISSION I

No. 1: Padma.

By Munshi Prem Chand.

Cotton Prices: Liverpool and New York Closing.

Ghulam Farid.

A. I. R. Orchestra.

Haidar Husain Chughtai.

"Paihle kahin Khuda use shauq-i-shikar de Keh dil raih gaya mudaa kaihte kaihte."

(ACCOMPIALED BY A. I. R. ARTISTS.)

Humayun piya turn kaiso bedardi

Kahe ko turn ne bisara hamen.

Sanam rahe

woh gham rahe.

(Hasrat Mohani).

Close down.

VUB 350.9 metres, 655 kc/s.

By W. W. Russell.

49.10 metres, 6,109 kc/s.

P. A. Rubens.

Robert Clark.

Cyril Scott.

F. Cower.

S. N.

S. N.

Mand.

Anand Bhairavi.

(bakshis).

(Ghalib).

By P. S. Mukerjee.

Saied—Tilak Kamod.

"For Villagers Only."
TRANSMISSION 5.

GSP 15.31 Mc/s (19.60 m.). GSF 15.79 Mc/s (25.53 m.).
GSC 9.58 Mc/s (31.32 m.).

11-30 a.m. - 12-30 p.m. Big Ben. Beethoven's Sonatas for Violin and Piano forte.—No. 4.
5-10 a.m. A Religious Service.
6-10 a.m. A Piano forte Interlude.
6-10 a.m. Weekly Newsletter.
Sports Summary and Announcements.

TRANSMISSION 6.

GSP 15.34 Mc/s (19.82 m.). GSC 9.58 Mc/s (31.32 m.).

7-30 a.m. Big Ben. A Short Religious Service*
7-46 a.m. The Morris Motors Band.
8-35 "Oysters."* By E. G. Bouleguer.
8-55 A Short Recital of British Popular Songs. Music by Betty Apilis.
9-10 Weekly Newsletter.
Sports Summary and Announcements.

TRANSMISSION 1.

GSP 15.79 Mc/s (25.53 m.). GSF 15.51 Mc/s (31.55 m.).

11-45 Big Ben. Variety.*
12-1 A Short Recital of British Popular Songs. Music by Betty Apilis.

Monday, 7th September


12-35 The B.B.C. Empire Orchestra.

GSP 15.34 Mc/s (19.82 m.).

12-30 a.m. Big Ben. Variety.*
12-35 The B.B.C. Empire Orchestra.

GSP 15.34 Mc/s (19.82 m.).


12-35 The B.B.C. Empire Orchestra.

GSP 15.34 Mc/s (19.82 m.).
Tuesday, 8th September

P.M.


7-0 Mohammad Shafi. "Dek guj larm-i-sami hui ki tasta mujhe Mehrban mujh peh hai pe ke woh dileg mujhe." (Harat Mohani.)


7-20 Mohammad Shafi. "Khunchhi sab tufar hi ko be-bikhay did Dwana dil balonde dil beqarar dil." (Mir Taqi)


8-30 Interview (Hindustani) : "The Workers of India." By Munshi Prem Chand.

8-45 Songs from the Shrimati Manjri. Part I.


9-45 Debate (English) : "Does education make for happiness?"

10-0 *Peter Mendoza and his Dance Band.

10-40 "Mile mujh se agar koi to dil se mehrban bhi ho.

Mehrban mujh peh hu peh da ko woh dilgir mujhe.

"Chahiye achhon ko jithiye chahiye.

Phool Chandji Bhatta.

No. 2.

Thumri Bhairvin.

"Ek saut-i-Sarmadi hai jish ka itna josh hai.

Allahabadi.

"Dikha de jannat-i-ku-i-Mohommad (Akbar Allahabadi.)

"Jannat-i-ku-i-Mohammad (Recorded).

"Have you forgotten " (Vocal Medley).

"For the sake of days gone by.

"In a Vienna Beer Garden.

"Lullaby in Blue - (Concert Version).


9-20 Mohammad Shafi. "Chahiye achhon ko jithiye yeh agar chahen to phir kia chahiye." (Ghuli.)

9-30 Niaz Bai of Patiala.

Chaval.

Punjabi Song.

9-50 Mohammad Shafi. "Mile mujh se agar koi to dil se mehrban bhi ho.

Mehrab mujh peh hu peh da ko woh dilgir mujhe.

"In light tunes.

"In a Vienna Beer Garden.

"Lullaby in Blue - (Concert Version).

11-00 *Relayed from our Simla Studio.

TRANSMISSION II.

12-0 Light Variety Programme. (Recorded).

B.B.C. BAND ORCHESTRA. "Marching along together." (CB-535.)

DEBEN SOMER'S BAND WITH RAYMOND NEWSLE. "(Bengalio.)

Cavatines of Musical Songs, including: "There's something about a Soldier, etc.

HINDUSTANI:

Xylophone Solo: "Over the Sights." (Marina Sole.

"Dance of the Octopus.

Columbia Group Promotions Company: "Have you forgotten." (Wood Medley.)

B.B.C. DANCE ORCHESTRA DIRECTED BY HENRY HALL. "Quadrille du-de-dee" (Carril White.)

GERALD W. AND HIS ACCOMPANYING BAND: "Acadian Nights." (Medley.)

B.B.C. DANCE ORCHESTRA. "Lullaby in Blue - (Concert Version.

BEECH BROTHERS: "Roll along Kentucky Mooe." (H.M.V. N-281.)

"For the sake of days gone by."

2-0 Close down.

TRANSMISSION III.

12-30 Time Signal.

A.L.R. ORCHESTRA. "Dance Time."

4-00 Phool Chandji Bhatt. Khayal Nat Biliwall.

5-50 Mohammad Shafi. "Ek Sautil-Sarmadi hai jis ko jithiye jithiye Warna hai zarur az ad se ta adab khabah hai."

(Akbar Allahabadi.)

6-0 Niaz Bai of Patiala.

Khayal Mukhani.

Thumri Phita.

6-29 1st News Bulletin and Weather Report. (Hindustani.)


GULAM SABIR. "Sarangi-Hindostani."

VUC 350-9 metres, 855 kcs. 31.36 metres, 9565 kcs.

P.M.

1-0 Available Market Rates.

Brunswick Decca Presents: "Fox Trot" (Columbia FB-1324.)

By S. L. B GODFREY: "I'm putting all my eggs in one basket.

2-6 Foxtrot, "Let's face the music and dance."

2-6 Rumba, "So this is heaven."

3-0 Traditional - "Old Folks at home."

4-0 Peter Mendoza and his Dance Band.

4-0 "Westward Ho! Eastward."

By: Mares L. Biitjia, LILAS.

Relayed from Rotary Club.

5-30 The V. U. B. Indian Orchestra.

In light tunes.

3-0 Light Music. SONTARI MELODIAS.
Tuesday, 8th September

TRANSMISSION 1.
G.S.F. 11.75 Mc/s (25.33 m.), G.S.B. 9.51 Mc/s (51.93 m.)

11-45 Big Ben. The B.B.C. Military Band.

p.m.
12-26 "The Spotted Lion."
By K. C. Gander Dower.*

12-46 A Recital.

12-56 "Blackout."
A drama by Howard Thomas. Production by John Tudor.

1-25 The News and Announcements.
Greenwich Time Signal at 1-30 p.m.

1-45 Close down.

TRANSMISSION 2.
G.S.F. 21.47 Mc/s (9.187 m.), G.S.B. 17.79 Mc/s (16.86 m.).

p.m.
4-30 Big Ben. Toni and the North Pier Orchestra.
From the North Pier, Blackpool.

5-0 "Hotel Tariff."

5-40 Musical Interlude.†

5-45 "CURIOSITIES of the English Theatre."

6-0 An Organ Recital.
Greenwich Time Signal at 6-30 p.m.

6-30 The News and Announcements.

6-50 A Recital of Classical Songs.

7-15 Close down.

TRANSMISSION 3.
G.S.F. 21.47 Mc/s (9.187 m.), G.S.B. 17.79 Mc/s (16.86 m.).

p.m.
7-30 Big Ben. "A Countryman’s Diary."

7-46 "Romance."

8-15 A Short Recital.
By Lance Dodger (Pianoforte). Overture (28 Cantatas) (Bach). Sonatas: Op. 12, No. 4 (Beethoven). Menuets in C major (Mozart, No. 30, Op. 48, No. 6 (Beethoven)).

8-30 Evensong, from York Minster.

9-20 Musical Interlude.†

9-25 The News and Announcements.
Greenwich Time Signal at 9-30 p.m.

9-45 "Dixie Land What I Was Born in."

9-50 "Pulcinella—Dance of the Satyr."

10-15 Regional King and his Orchestra.
An April Shower at Kew: A Menu Rhapsody (Haywood Wood).

10-30 Close down.

TRANSMISSION 4.
Three of the following frequencies will be used: G.S.F. 21.47 Mc/s (9.187 m.), G.S.F. 15.14 Mc/s (9.82 m.), G.S.B. 17.79 Mc/s (16.86 m.).

p.m.
10-45 Big Ben. "A Countryman’s Diary."
By A. G. Street.

All Times are given in Indian Standard Time.
The Indian Listener

August 22, 1936.

All Times are given in Indian Standard Time.

VUB 340.13 metres, 882 kc/s.

TRANSMISSION I.

8-0 a.m.

Time Signal.

Bhajan... By BRINDER SINGH RAWAT.

(Companied by Sarod, Harmonium and Tabla.)

8-10 A.I.R. Orchestra.

Parai.

8-20 Maqbool Husain. Khayal Lalit.

9-30 Brinder Singh Rawat.

("Jawan atri hi un par qaysamat ki bahar aai"

Nazar begana war uthi hia mastaanav aai.") (Urdu)


Allah Bandi

P.S. Mukerji. Sarod—Bhairvin.

(From Khubsurat Bala).

10-0 "An Orchestral Programme".

By His Excellency the Viceroy’s Orchestra.

(Kind permission of His Excellency the Marquess of Linlithgow).

Directed by Lt. C. H. Fenner, M.B.E., L.R.A.M.

March

"Military" — Schubert.

Selection from the

"Heldenleben" — Brahms.

Suites

"At Grecian Games" — Bycher.

Other works by: "Lover's Lilt" — "Calling Home" — Grieg.

Selection from the

"Paganini" — Vivaldi, "Overture in F" —"Khartalwale" — Roberty.

Close down.

VUB 350.9 metres, 855 kc/s.

TRANSMISSION II.

1:00 p.m.

Time Signal.

Indian Recorded Music.

KANAYI BALA.

INDUBALA.

ANGUBALA.

MUGUR BIJ.

ZOHRA BAI.

LAXMABAI.

ZOHRA JAIN.

SAGINA JAIN.

PANNA JAIN.

USA RANI.

Close down.

TRANSMISSION III.

10:30 a.m.

Time Signal.

A.I.R. Orchestra.

Kanaya Bala.

(From Khuburat Bala).

10:40 Maqbool Husain.

Goswali.

10:55 Brinder Singh Rawat.

Thumri.

11:30 Allah Bandi of Hindustan.

Thumri Puria Dhanasri.

(English).

12:10 Available Market Rates.

Jules Craen and His Quintet.

Relay of Music from Taj Mahal Hotel.

(Kind permission of the Management.)

By "Lois Teise".

"L’Amoureux Serepend" — Pavane.

"Les Samba-Hommes" — Filareti.

"Paisje Pav" — Gilet.

"Ambrose Sentimentale" — Gresaia.

"Sur les Lagunes" — Kolver.


"Overture Fidelio
directed by [M. L. R. R.]

11:00 A.M.

By His Excellency the Viceroy’s Orchestra.

(Kind permission of His Excellency the Marquess of Linlithgow).

11:05 "A Concert Programme".

VIB AND HIS SEXTET.

"Overture — "Did You Land on Your Feet".— Offenbach

"Children of Vienna" — Strauss.

BRAHMAN VA.

"The Wayside Meafe" — "In Cape and Crimson" — "Love Lilt".

"The Calcutta Orchestra (Contd.).


VUC 370.4 metres, 810 kc/s. 49.10 metres, 6109 kc/s.

p.m.

1:00 Time Signal.

"A Selected Programmes from the Studio.

(H. M. V. Recording).

1:00 Talk (English): "The Coinage of British India — No. 3." By G. WARD. (Late Bulletin Registrar, the Mint, Calcutta).

1:20 "Among the latest Dance Hits.

SB A short Dance Programme from the Studio.

Calcutta Weather Bulletin for Oceanaecr and Rivercraft (if any).

1:30 Talk (Bengali): "The System of Education in Ancient India" By KAMAL ROY. Vocal Music (Bengali).

2:00 PRAPALABARA.

2:20 GANDHARDA MUKHERJEE.

2:30 KHALAKATA BY RAGHU NATH BHATTACHARYA.

3:00 Music Training for Beginners by P. K. MULLICK.

6:0 P.M.

The Calcutta Orchestra, conducted by SURENDRAN LALL DAS.

Vocal Music (Bengali).

6:15 PROVARTY.

6:30 JAYADHAR PYNE.

6:45 RANTHAVRA MUKHERJEE.

7:1 KRISHNA CHANDRA DEY.

7:21 The Calcutta Orchestra (Contd.).

7:31 "On Hill and Dale.

(On Hill and Dale.)

(Composed by Bankim Chandra Chakrabarti.

7:51 News in English.

7:51 "News in English.

8:0 The Harris Sisters (Connie and Mildred).

8:15 VOBAL AND INSTRUMENTAL ENTERTAINERS assisted by the Harmony Trio in Hawaiian Arts and Melodies.

Wednesday 9th September

TRANSMISSION 2.

GSK 21.47 Mc/s (13.97 m.), GSF 17.79 Mc/s (16.86 m.), GSH 13.14 Mc/s (19.92 m.).

5-0 "A Recital." By Mrs. Ellis (Clarinet). All the Fun of the Fair (Earlmore Martin). I Passed by your Window (Braye). England (Hersby). Selection by Howard (Operator). Full Sail (Vera Bock).

5-15 "A Countryman's Diary." By G. A. Street.

5-30 Seventeenth-Century Contemporaries. The Music of Handel and Purcell. The B.B.C. Empire Orchestra; leader, Daniel Dougall (1); (2) Overture, Overture, Areopagitica (Handel). (3) Handel; the Fifes and the Clarions (The Fairy Queen) (Purcell, arr. Steuart). (4) Handel; The Serenade; Padua; The Cuckoo Serenade (Brahms). (5) Handel; the Nightingale (Liszt). (6) Handel; A Recital.

7-0 "The Six Serenaders." Donald Denne (Tenor), Cedric Smart, David Millar, Tony Symphon, and Jack Clarke at the Pianoforte.

7-15 Walter Collins and his Light Orchestra.

7-45 "A Countryman's Diary."

8-10 The News and Announcements.

8-30 Greenwitch Time Signal at 6-15 a.m.

9-30 Close down.
Thursday, 10th September

VUC 370.4 metres, 810 kc/s. 49.10 metres, 6,109 kc/s.

**TRANSMISSION I.**

8-0  Time Signal.

8-10  A. L. R. Orchestra. Bhairatun.


"Itna to hui shab-i-gham ke asar se

Fitrat ka jigar phut baha chashm-i-sahar se.

(Howez).


9-0  Cotton Prices : Liverpool and New York Closing.

9-5  Hamid Husain. Thumri Anwari.


11-0  Close down.

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**TRANSMISSION II.**

**p.m.**

1-0  Available Market Rates.

A Programme of Parlophone Records.

HARRY BOY and HIS ORCHESTRA.

One step - "The Pantomime".

Revelry - "Cheek to Cheek".

Romina - "Love in the Cabaret".

"Feel like a feather in the breeze." (Two pianos with string bass and drums.)

"I think that I love you".

W. Schubert.

"Vienna City of my dreams".

5-10  Light Music.

By ANGJANABAI WADAK.

5-20  Film Hits.

A Programme of latest Gramophone Records from Indian Talkies.

3-V. U.B. Orchestra.

School Broadcasting.


4-15  Talk (English). - "Growth of Towns." By C. V. S. SHASTRI.

4-30  Close down.

6-0  Relay from Central Cinema.

(For broadcast permission of the Management).

6-30  Children's Hour.

AUNTIE MARY will entertain our little friends.

7-0  A Recitation.

7-15  Hawaiian Guitar.

By ANANTH LOBO.

**p.m.**

7-20  Benazir Bai of Jaipur.

"Jo aaj sayan san tanh ghar jage,

Ab main karun to tarzar

Sayan ham se ne bol.

Dadra Tilak Kasion.

7-30  "For Villagers Only.


A Shooting Trip. By Hadir Khan.

8-45  Songs from the Shrimati Manji - Part III.


9-30  Time Signal.


Current Events in America.

By DR. JAMES C. MANRY.

10-0  "A Zoo Holiday.

(B. C. Recorded Programmes).

A Light Entertainment Programme.

The book by ELSE WATERS and ASHLEY STEARNE.

Lyrics by ELSE WATERS. Music by ASHLEY STEARNE.

Produced by CHARLES WEBBE.

11-0  Close down.

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**TRANSMISSION III.**


5-40  Hamid Husain.

"Mar hi dalte halo gaisuon wale dil ko

Ishq kiya nakam raha akhir ko kam tamam kiya.

(Muz Tagi).

5-50  Benazir Bai of Jaipur.

"Kia puchho lo kis lahayi man dil ne bhi kia kia kia

Ishq kiya nakhra leh akhir ko kah tamam kya.

(Versi Wieb).

6-0  Close down.

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All Times are given in Indian Standard Time.
Thursday, 10th September

8:00 a.m.  The St. Leger. A commentary.*
By R.C. Lyte, from Town Moor Racecourse, Doncaster.

8:30 a.m. Stepping Out.*
A novelty programme of dance music, with Maurice Winnick and his Orchestra.

9:00 a.m. The News and Announcements.

9:15 a.m. A Recital.*
By Cecil Baumer (Pianoforte). Prelude in B flat (Handel). Two Studi formai per pianoforte (Bach); Fantastic improvization (Chopin); Idyl; Dans des servitudes (Cesar Bauer). Vespertine (Chopin). Elegie mignonne (Penny Pitt). Serenate etude (Rubinstein). 6-0 p.m. Close down.

9:30 a.m. The Empire Exhibition at Johannesburg.*

10:00 a.m. The Arcadian Follies.*

9:15 a.m. A Programme of Ballet Music.*

9:30 a.m. The News and Announcements.

10:00 a.m. A Song Recital.*
By Peter Dawson (Baritone), with a Pianoforte Interlude by John Wills. By Peter Dawson; At Evening Hour (from St. Matthew's Passion). My Dearly Beloved (Berceuse). Two Interludes in A: (1) Noce bretonne (d'Indy). The Jolly Roger (McCall), The Strong Go On (Thayer), The Pride of Ocean Tramps (Hedley Martin).

10:45 a.m. The Leslie Bridgewater Quintet.

11:00 a.m. Transmission 3.
GSH 11.75 Mc/s (19.66 m.). GSO 12.79 Mc/s (31.55 m.).

11:00 a.m. Big Ben. A Symphony Concert.

11:30 a.m. The News and Announcements.
Greenwich Time Signal at 11:30 a.m.

12.00 noon. Transmission 4.
Three of the following frequencies will be used — GSH 21.47 Mc/s (39.70 m.). GSO 12.79 Mc/s (31.55 m.).

12:00 noon. Big Ben. A Programme of Gipsy Violin Music.*


12:30 noon. The News and Announcements.
Greenwich Time Signal at 12:30 noon.

12:45 noon. Round and About.
R. J. Moynihan (Director). Double Jig, The Wheel's of the World; The Diamond Ring; Song Tune, The Old Mud Cabin; Megghettia; Hornpipe; Single Jig, Simple the Windy; Reel, The Skill Lasses; Song Tune, John Dooley; Hornpipe, The Boundary of Kolob (Wind). 1:00 p.m. Close down.

1:30 p.m. The Leslie Bridgewater Quintet.

2:15 p.m. The News and Announcements.

2:30 p.m. Close down.

All times are given in Indian Standard Time.

Aug. 22, 1936.

GERMANY (Berlin)

FRANCE (Radio Colonial)

HOLLAND (Phobi)

ITALY (Rome)
Friday, 11th September

p.m.


9-30 Time Signal.

9-45 Talk (English) : "The Month in Sport" No. 1. By A. S. DE MELLO.

10-0 "The Apple Dumplings Concert Party."

Featuring WILL EYE

ARTHUR FOSTER

EDGAR HORII.

PEGGY DUNCAN

NORA HEMINGWAY

BERNICE WILLIAMS

Compere-ARTHUR FOSTER.

11-0 Close down.

*Relayed from our Simla Studio.

KHORDAD SAL

11-0 "Sasooni Mokan."

A Musical comedy in Gujarati written by DARAB MISTRY (Goria) and LOVJO LAVANGIA.

12-0 Zora Khaton of Lahore (Film Star).

In Hindustani Songs.

With Sarangi, Harumantum and Tabla.

12-40 An Orchestral Concert.

SB By MENDOZA and His Band.

Selection of latest Talkie Hits played on two pianos.

Conducted by PROF. B. R. DEODHAR.

2-0 Close down.

A Variety Concert.

By MOOLY CHAM MONGINK KAMAR.

3-30 "Sampadak.

A humorous sketch in Marathi. Presented by the Goshunchin players.

8-0 Commercial News and News in Hindi.

12-30 Talk (Gujarati) : "Khordad Sal."

By A. K. VESAVEVALA.

3-0 Close down.

VUC 380.9 metres, 855 kc/s. 31.36 metres, 9,565 kc/s.

11-0 Close down.

CALCUTTA

VUC 370.4 metres, 810 kc/s. 49.10 metres, 6,109 kc/s.

p.m.

12-36 Time Signal.

SB "The Light Opera Company in Selected Medleys.

12-51 Robert Pickler & his Hungarian Orchestra.

Musical Selections, relayed from "Firpo's" Restaurant.

(To kind permission of the Management.)

"The Story of Commerce and Discovery - The Path to the New World."

By NIBEN CHATTERJEE.

Educational Broadcast for School Students.

2-6 "Musical Selections.

2-36 Talk (Bengali) : "A Few Principles of Hindu Philosophy."

By BIRUHI SARMA.

3-6 Time Signal. Close down.

4-0 Time Signal.

Children's Hour conducted By KAMAL BOSE.

Letters and Ladders.

A Fairy Tale.

Vocal Music by GITA Bose.

Things that we see and hear of every day.

*Musical Selections.

5-51 "Dance Music from the Studio.

6-5 The Grand Hotel Orchestra.

Concerted and Instrumental Programme.

Relayed from the Palm Court of the Grand Hotel.


Indian Theatrical Night.

"Kinnari."

By late Pandit Kshirode Prosad Vidyabhavan.

Under the direction of B. K. BHADRA.


*Gramophone records.

RADIO PHOTOS

Readers are cordially invited to send us topical and interesting photos relating to any phase of broadcasting in India. All photos used will be paid for.
TRANSMISSION 5.
GSP 15.31 Mc/s (19.46 m.), GSC 9.58 Mc/s (13.12 m.).
an.m.
9:40 Big Ben. "Do you Remember?"
A Ballad Concert of the Nineties. (Syracuse, N.Y., Newman and Akin (Tenor), J. W. Gadsby (Pianoforte).
5-10 George Scott-Wood and his Six Swingers in "Evergreens of Jazz." Directed by Leonard Feather.
5-40 A commentary* On the International Speedway Championships, from Wembley.
6-0 A Recital Of Violin Music.
6-10 The News and Announcements.
Greenwich Time Signal at 6-15 a.m.
6-30 Close down.

TRANSMISSION 6.
GSP 15.31 Mc/s (19.46 m.), GSC 9.58 Mc/s (13.12 m.).
an.m.
7-30 Big Ben. The B.B.C. Military Band.

9-30 The Spotul orion.*
By K. C. Gordon Dowski.

8-40 A Recital

9-10 The News and Announcements.
Greenwich Time Signal at 9-15 a.m.
9-30 Close down.

TRANSMISSION 1.
GSD 11.75 Mc/s (25.53 m.). GSB 9.31 Mc/s (51.55 m.).
a.m.
11-45 Big Ben. "Curiosities of the English Theatre."
By John Parker.

12-1 Chamber Music.

11-30 The News and Announcements. Close down.

1-15 Paul Godwin's Orchestra.

1-45 The News and Announcements.
Greenwich Time Signal at 1-30 p.m.
1-45 Close down.

TRANSMISSION 2.
GSH 17.6 Mc/s (25.53 m.). GSC 9.31 Mc/s (51.55 m.).
p.m.
4-30 Big Ben. "Empire Magazine," No. 4.* A weekly review of things at home. Edited by Pius A. Thornton.
5-2 The B.B.C. Dance Orchestra.
Directed by John Parker.

Friday, 11th September

6-0 Students' Songs.

11-30 The News and Announcements.
11-50 Dance Music. Peter Yarke and his Orchestra.

a.m.
12-15 The B.B.C. Theatre Orchestra.

2-10 The News and Announcements.
2-30 A Programme of Hawaiian Music.

.......

GERMANY (Berlin)
10-40 a.m. Light Concert. 11-45 a.m. Light Concert (cont.). 12-30 a.m. News and Economic Review in English. 12-45 p.m. Radio Symphony Orchestra. 1-00 p.m. Topical Talk. 1-15 p.m. "Ich hab' in Pennen einen Liebeswunsch." 1-30 p.m. Reich Party Day 1936. 2-30 p.m. "Die Liebe und das Leben." 2-45 p.m. Canadian Folk Songs. 3-15 p.m. Folk Music.

4-30 p.m. Concert of Light Music. 5-50 p.m. Little German Broadcasting AB. 6-30 p.m. Concert of Light Music (cont.). 6-45 p.m. Reich Party Day 1936. 7-30 p.m. News and Economic Review in English (on D.J.C.D.J.). 7-45 p.m. Today in Germany. Sound Pictures. 8-00 p.m. "Wallenstein's Lager." 8-45 p.m. Folk Music. 9-30 p.m. Close down.

FRANCE (Radio Colonial)
Wavelength 19.68 m. and 25.24 m.
11-30 a.m. Relay from P.T.T. Transmitter. 11-50 a.m. Market Prices, Rates of Exchange. 12 noon. Records. 12-10 p.m. Relay from P. T. T. Transmitter.
12-25 p.m. Records. 1-00 p.m. Talk on Events in France. 1-15 p.m. Records. 1-45 p.m. News in French. 2-15 p.m. News in English. 2-30 p.m. Close down.

3-25 p.m. Day's Programme. 3-30 p.m. Relay from Radio Paris. Concert. 4-30 p.m. News in English. 4-45 p.m. Concert-Relayed. (Contd.). 5-15 p.m. News in French.
5-45 p.m. Concert-Relayed. (Contd.). 8-30 p.m. Important Trends of the Day in France. 9-05 p.m. Mr. Desanges. 6-45 p.m. News in French. 7-30 p.m. Colonial Market Prices, Rates of Exchange. 7-45 p.m. Concert with Miss Marie, Piano Recital. 8-45 p.m. Terms of Exchange and French Stock (Rentes). 9-15 p.m. Colonial Market Prices, Rates of Exchange. 10-00 p.m. Concert-Relayed. (Contd.). 12 midnight. News in English. 12-30 a.m. News in French. Market Prices. 1-00 a.m. Dramatic Federal Broadcast. 10-The Time of the Sheriff. French Version by Delair. 3-30 a.m. Close down.

HOLLAND (Ploki)
6-30 p.m. Opening announcement. 6-45 p.m. Music. 6-45 p.m. News from Holland. 7-00 p.m. Ploki trio. 7-20 p.m. Talk on literature. 7-40 p.m. Ploki trio (contd.). 8 p.m. Light Music. 8-30 p.m. Close down.

ITALY (Rome)
Wavelength 25.40 and/or 31.31 Metres.
5-13 p.m. Varied programmes. 6-45 p.m. Concert. Talk, "Mediterranean Civilization—Rumania.." 7-00 p.m. News in English. Opera, "La Traviata." 8-45 p.m. Vocal concert—Soprano Enrico Valdemarolo. Orchestral concert. Symphonies from famous operas. Poetic readings. 9-00 p.m. Rondallini. 11-30 p.m. Varied programmes.

All Times are given in Indian Standard Time.
The Indian Listener

August 22, 1936

TRANSMISSION I

8-00 Time Signal
Shridam Bhagavad Geeta.
By Pandit Bij Shubhram Joshi.


8-25 Mumtaz Begum. (Film Actress.) Thumri.


9-10 Shiv Dayal Batesh. Thumri.


9-40 Shiv Dayal Batesh. Thumri.


10-00 Close down.

TRANSMISSION II

1-00 Time Signal. "DANCE MEMORIES OF THE PAST." (A Recorded Programme.)

B.B.C. DANCE ORCHESTRA. Presented by A. I. R. Artists.

2-00 "Little Dutch Mill." (CB-751.)

3-00 "Because it's Love." (Jigar).

4-00 "Let's all sing like the birdies sing."

5-00 "An Elephant never forgets." (CB-771.)

6-00 "I nearly let love go slipping through my fingers." (CB-694.)

7-00 "When a Soldier's on Parade." (CB-331.)

8-00 "Blazin' the Trail." (CB-694.)

9-00 "Michell."

10-00 "Fillipucci."

11-00 "By PRITI GUPTA.

12-06 Relay from Taj Mahal Hotel.

12-36 The Calcutta Orchestra, conducted by Surendra Lall.

12-46 Dhiren Das.


TRANSMISSION III


5-40 Shiv Dayal Batesh. Thumri.

5-50 Brinder Singh Rawat.

6-00 Mumtaz Begum. (Film Actress.) Thumri Kaliyan.

6-10 Shiv Dayal Batesh.

"Saads tiri muntia na mere saare ke liye hai. Sar mere ahi jiter muthar ke liye hai."


6-40 Brinder Singh Rawat.

"Qadlo aur dil men seva ho gaya Dilka tumbhara bala ho gaya." (Hali).

VUC 340.13 metres, 882 kc/s.

VUC 370.4 metres, 810 kc/s. 49.10 metres, 6,109 kc/s.


7-0 Shiv Dayal Batesh. Thumri.

7-29 Brinder Singh Rawat. Bhajan.

7-30 "For Villagers Only."

8-30 Debate (Hindustani): "New lamp for Old." No. 2. Is the present system of education consistent with the ideals of young India? Yes: A. L. Ahmad Sardoo, No. Dr. Airen.

8-45 A. I. R. Orchestra. (Bridge of Sighs) "Maut ka Ghat."


9-45 "Talk (English): "A visit to Norway."

By Honor Leslie Moly.

10-0 B. S. Rawat.

"Lokhon jatan kiyae dil-i-betab ke liye Ankhem taras hai han min khab ke liye." (Bekhud).


11-00 B. S. Rawat. Thumri.

11-00 Close down.

* Re lied from our Simla Studio.

Saturday, 12th September

p.m.

5-00 Malang Khan. Sur Bahar—Darbari Kandra.

7-0 Shiv Dayal Batesh. Thumri.

7-29 Brinder Singh Rawat. Bhajan.

7-30 "For Villagers Only."

8-30 Debate (Hindustani): "New lamp for Old." No. 2. Is the present system of education consistent with the ideals of young India? Yes: A. L. Ahmad Sardoo, No. Dr. Airen.

8-45 A. I. R. Orchestra. (Bridge of Sighs) "Maut ka Ghat."


9-45 "Talk (English): "A visit to Norway."

By Honor Leslie Moly.

10-0 B. S. Rawat.

"Lokhon jatan kiyae dil-i-betab ke liye Ankhem taras hai han min khab ke liye." (Bekhud).


11-00 B. S. Rawat. Thumri.

11-00 Close down.

* Re lied from our Simla Studio.

p.m.

10-0 A String Concert.

By THE MELITA ELECTRONIC ORCHESTRA.

ORDER


ORDER

Melodee "Secretary of the heart." Krishna. Sompatra "Les Milions d'Arpeggio." Drogue.

MANDOLIN SOLO.

PIKES


NAME OF ORCHESTRA. "The Week's Sport." Divanshi.

MADRAS ORCHESTRA.

SINGING "I nearly let love go slipping through my fingers." Close down.

11-00 Close down.

VUC 370.4 metres, 810 kc/s. 49.10 metres, 6,109 kc/s.

p.m.

15-30 Time Signal.

SB A Studio Programme By T. E. Bevan & Co. Ltd. (C'w/ "CM" Recordings.)

"My Heart and I." Fancy Meeting You, etc.

THEN CLOTHL.

SALLY LOO'S, Canadians.

"My Last Love Song.

DOODY SHAN, with the Dawn Patrol.


5-38 Time Signal.

New Corner's Corner. Light Bengali Song.

KIRANAMANI DAS—Light Bengali Song.

SUBIR CHATTERJEE—Modern Bengali Song.

6-6 Talk (Bengali): "Cinchona." By KAMALENDRA ROY.

Rural Reconstruction Talk.

INSTRUMENTAL MUSIC.

The Calcutta Orchestra, conducted by Surendra Lall Das. Light Bengali Songs.

5-36 ABBASUDDIN AHMAD.

5-51 DHIRENDRA NATH DAS.

7-4 The Calcutta Orchestra.

Vocal Music (Bengali). Binapany.

7-31 PAKSHA KUMAR MULLICK.

7-46 The Calcutta Orchestra.

5-31 News in English.

SB

5-8 Light Classical Song By Benode Ganguly.

All Times are given in Indian Standard Time.
PERTRIX

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BOMBAY RADIO COMPANY, LTD., BOMBAY.

TRANSMISSION 1.

GSP 15.31 Mc/s (19.66 m.), GSD 11.75 Mc/s (25.33 m.), GSC 9.38 Mc/s (31.32 m.).

a.m.

11-45 Big Ben. A Religious Service

(Methodist)*, from Wesley's Chapel, City Road, London.

p.m.

12-36 A Recital

Of Handel's Music.

12-45 A Recital.

By Peter Dawson (Baritone).*

1-25 Weekly Newsletter.

Sports Summary and Announcements.

1-45 Close down.

TRANSMISSION 4.

Three of the following programmes will be used —

GSP 17.79 M/c (19.66 m.), GSD 15.14 Mc/s (19.66 m.), GSC 9.01 Mc/s (31.32 m.).

a.m.


Close down.

12-15 A Pianoforte Recital.

Directed by Henr Hull.

1-15 p.m. News and Review of the Week in English. News in French.

FRANCE (Radio Colonial)

Wavelength 19.68 m. and/or 25.24 m.


12-25 p.m. News in French. 12-10 p.m. News in English. 12-30 p.m. Closing.

3-25 p.m. Day's Programme. 3-30 p.m. Relay from Radio-Paris—Concert. 4-30 p.m. News in English. 4-45 p.m. Concert—Replayed. 4-50 p.m. News in French. 5-45 p.m. Concert—Replayed. 6-30 p.m. Reviews and Periodicals. 6-40 p.m. The Week's Programme, by Mr. P. C. Brive. 6-50 p.m. Colonial Market Prices. Rates of Exchange. 7-45 p.m. Relay 8-30 p.m. Close down.

8-45 p.m. News in French and Market Prices. 10-30 p.m. Concert—Relayed. 11-0 p.m. Relay of Radio—Journal of France (French News). 11-20 p.m. Talk on the Cinema, by Mr. Lame—Desvarennes. 11-30 p.m. Concert—Relayed. 12-0 midnight. News in English. 12-30 a.m. News in French, Market Prices. 1-0 a.m. Relay from Paris P.T.T. 3-30 a.m. Close down.

ITALY (Rome)

Wavelength 25.40 and/or 31.13 Metres.

5-12 p.m. Varied programmes. 6-45 p.m. Concert. 10-0 p.m. Operatic selections Anna Margareta, Guido Agnelli, Myns Laine, Guido Angeletti, Conductor : Costantino Lombardo. 11-50 p.m. Varied programmes.

Again we express regret to our listeners that we have not received the full B.B.C. programmes for the first fortnight of September. We are still endeavouring to arrange for synchronisation, but even with the use of the Air Mail there are times when our date of publication just misses the arrival of the B.B.C. advance sheets, which are published weekly. We hope, however, that even this obstacle will be overcome shortly.
VUD 340.13 metres, 882 kc/s.

**TRANSMISSION I**

8-00  Time Signal.

Bhajan. By LACHHII RAM, Chaura. [Supported by A. I. R. Artists.]


8-20  Misuddas-tali. By GULHAM FARID. [Refrain by A. I. R. Artists.]

8-35  Lachhi Ram. Khayal Dus Tod. 4

8-45  Story (Hindustani): “Stories from Indian History.”

8-51  Story (Hindustani): “Gaddi.”

9-0  Cotton Prices : Liverpool and New York Closing. Niaz Bai of Patiala.

9-10  Lachhi Ram. Tumari Gaur Sarong. 4

9-40  Gulham Farid. “Dil ko jab di se rahas hai”

Ah ho! hai walar ho hai.” (Jigar).

9-50  Gulham Sabir. Sarangi—Balakhanl Todi. 4

10-0  Close down.

**TRANSMISSION II**

1-00  Time Signal. Indian Recorded Music. 4

Close down.

**TRANSMISSION III**

5-30  Time Signal.

Union of India. “Mere man men bai.”


6-00  Gulham Farid. “Ko waxh se leh par mire faryad na atri. Woh shom nahan khai thi jo yad nu atri.” (Dagh).

6-10  Haidar Husain Chughtai. Sitar—Purvi Kalyan.


6-30  1st News Bulletin and Weather Reports. (English).

6-40  Gulham Farid. “Mujhe dar se aane tu tale hai yeh bata mujhe tu kahan nahan.

Koi aur bhi hai tare kia tu agar nahan to kahan nahan.” (Mir Durd).

6-50  Niaz Bai of Patiala. Khayal; Tumari; Ghazal.

7-20  Gulham Farid. “Din ko nahi khush bhi mubh ko chhupate mere agra.

Is tarah se aehh na se mere agra.” (Dagh).

7-30  “For Villagers Only.”

8-10  Talk (Hindustani): “Current Events.” 4

By Dr. ZAIL and HUSAIN KHEL.

8-45  Simla Hills Songs. By LACHHII RAM.


9-7  Niaz Bai of Patiala. Ghazal.


9-45  “Talk (English): “Girl Guides.” By Mrs. B. H. DORGON.

10-0  “Devonshire Cream.”

(A B.B.C. Recorded Programme).

A Comedy by EDEN PHIPPTTS. Adapted and Produced by CYRIL WOOD.

11-0  Close down.

*Replayed from our Simla Studio.*

**BOMBAY**

VUB 350.9 metres, 855 kc/s.

1-0  A Studio Programme by S. Rose & Co., Ltd. (Columbia Records.)

**ORCHESTRA RAYMONDE.**

Greatly in Vienna “Parts 1 and 2.

JOSIE MATHEWS; Soprano.

“Three Wishes.”

GRAND TUNA CASTLE LAND.

“Green Eyes.” (Solv Dance Cabaret).

Invitation to a Rumba.

CLAFLAM AND JOVIER. Harmonia Sophia.

“A spot of income tax butter” Parts 1 and 2.

ALBERT SUTHERLAND and his Orchestra.

“Marcella.”

“Cathone Fermone.”

M. N. TSHOBO.


Tune: Mot Gour—Tune: Chaitn.

TUNDE LAYTON—Tenor.

“Meen over Meer.”

He’s a WAGEN.”

CABAD, CHERES and MARK JACOBSON. FROD DAR.

“The Man from future bears.”—Film song Medley.

MINOROPHOS—“Film songs Medley.

ROBERTS and HIS PIANO-Association.

“Aloing Vache.

“There’s a lovely lake in London.”

DEBROY SOMES BAND.

“The Cockadoodle.” Selection Parts 1 and 2.

2-0  Selection of Indian Music.

MANSAB CARA PARTY.

“Yeccina Yoga Chinde Krishna Tari”

Purvi Patunsi Benti.

G. M. LONDHE.

“Chulabta El Tari.”—Lachcha of Marakhat Haat.

Tilang.

DUGRA-KOUK.

“Kabu kepp patra.”

Aamir A’ti Dari Sambar.

CHUGRU DASAIN.

“Loke Dari Dari Sathi.”

“Bari Sarvam 7ee Sathi.”

SYAMAVRTH.

“Bhajana.”

C. SAHAY.

“Chato Sathi Khola.”

PANDIT RAMA KVAMODA BHAI.

“Kaa Kotoniti Rati.”

Kake Muzhodi Shok.”

SUNDARA.

“Aloing Tare Pan Phulkat.

Akal Miti Jpats”

(Owen Records.)

3-30  Close down.

3-40  Relay from Wellington Centre.

(By kind permission of the Management).

5-20  Talk (Gujarat): “Foundation of Music—No. 7.” By Mrs. KSRUSHEED T. MULLA.

5-30  Guljerati Folk Songs. By RASH T. VIN.

7-5  Bul-Bul Tarang Solos. By JAYANT SIIH.

7-15 Shree Bhagwatt Geeta Pravachana. By PANDIT LAXMANRAO UGHDLE.

**CALCUTTA**

VUC 370.4 metres, 810 kc/s. 49.10 metres, 6,109 kc/s.

12-26  Time Signal.

SB A Light Orchestral Concert.

1-6  The Latest Dance Hits. (Selected Items).

SB A Light Classical Music.

FRANCOPOLO and his Blue Harmony Boys. Calcutta, Weather Bulletin for Oceanic and Rivercraft (if any).

1-36  Talk: “How men began to write and count.”

By NIPREN CHATTERJEE. Educational Broadcast for School Students.

2-8  “Musical Selections.”

2-36 Kathakata. By RAMKRATI YAKARANABITHE.

3-6  Time Signal. Close down.

5-36  Time Signal.

Instrumental Music. Sarode Solo. RAJENDRA NARAYAN SEN GUPTA.

5-51 Gambhira Song. By TARAPADA LARGHE.


6-26 A Classical Programme.

SATISH CHANDRA DATT. (Dani Babi)—Dhrupad.

RAMKRATI MISHRA—Khegay.

7-1 MUSHTAQ RUSAIN—Khegay.

7-21 SUBAJI PRABHAT BHATAYA—Khegay.

7-36 MANOJ SHAHRI—Thangri.

7-41 News in English.

SB A Light Vaudville Programme from the Studio.

SB Alternatively, if reception satisfactory, An Empire Programme relayed from Deventry.


SB By SACHIN DAS.


SB By N. N. MAZUMDAR.

9-51 Talk (Bengali): “Accounts not Accounted for.”

SB By MUMTAZ GUPTA.


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British Institute of Engineering Technology

40, Bombay Mutual Building, BOMBAY.

All Times are given in Indian Standard Time.

876
Monday, 14th September

a.m.
1-0 Variety.
2-0 Jean Salder's Serenaders.
2-10 The News and Announcements.
2-20 Jean Salder's Serenaders.
2-30 Talk.
2-35 A Recital.
By William Primrose (Violin) and Joan Coxon (Soprano).
Greenwich Time Signed at 3-30 a.m.
3-45 Billy Gerhardt and his Dance Band.
From the Piccadilly Hotel, London.
4-0 Dance Music.
4-15 * Electrophone record.

GERMANY (Berlin)
10-40 a.m. A Merry Potpourri.
11-45 a.m. A Merry Potpourri (contd.).
12-30 p.m. News and Economic Review in English.
12-45 p.m. Delay in Germany. Sound Pictures.
1-0 p.m. Brass Band. 1-30 p.m. Reich Party Day 1938.
2-30 p.m. Children's Hour: "Apprentices." 2-45 p.m.
Sports Review. 3-15 p.m. Orchestral Concert.
4-30 p.m. Concert of Light Music. 5-15 p.m.
Greeting to our Listeners in the Far East. 5-30 p.m.
Concert of Light Music (contd.). 6-30 p.m.
News and Economic Review in English on DJE, DJQ, DJN, DJE.
7-45 p.m. Today in Germany. Sound Pictures.
8-30 p.m. "Little Things too can charm us..." Music and Poets.
8-45 p.m.
Hitler Youth Programme: Books for the "Youngfolk.
9-45 p.m. "The Declaration of Love." 9-15 p.m.
Sports Review. 9-30 p.m.
Close down.

G.S.D 11.57 Mc/s (25.53 m.), G.S.B 9.51 Mc/s (31.55 m.).
Three of the following frequencies will be used:

1. Signalling on:


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These instruments possess the quality of tone that
is to be believed.

The News and Announcements.
1-50 A Recital.
By James Walker (Australian Pianist).

Close down.

ITALY (Rome)
Wavelength 25.40 and/or 31.13 Metres.
5-13 p.m. Varied programmes.
5-45 p.m. Concert Talk.
"Woman's Day—Teresa di Gesù".
7-30 p.m. News in English. Symphonic concert Talk.
"Fascist Finances" by Francesco Spinelli.
Vocal and piano concert-soprano Agnese Galli, pianist Giuditta Sartori.
10-0 p.m. Concert of recordings. Concert of dance music.
11-10 p.m. Concert of Arabian Music.
11-30 p.m. Varied programmes.

Good Enough.

Good Enough.

All Times are given in Indian Standard Time.

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THE GRAMOPHONE COMPANY LIMITED, BOMBAY DELHI BANGALORE DUM DUM
Tuesday, 15th September

p.m.

6-50 Hamid Husain

"Dil se dil ko milaane ke baad
Han umr admea nee jaa hain."

"(Saghat)"

7-0 Dance Melodies

7-15 Kallo Bai of Pataudi. Khayal Kedara

7-25 Ghulam Sabir. Sarangi — Komed

7-30 "For Villagers Only"

8-0 Interview (Hindustani) — "Workers of India"

8-45 A Chorus from the Mahabharat.

9-0殴on Haripurn. Kudar.

9-50 Kallo Bai of Pataudi. Kallo Bai of Pataudi.

10-0 Close down.

TRANSMISSION II

p.m.

1-0 Signal Time

A Light Orchestral Programme

1.00 AM: MARIUS WEYER AND HIS ORCHESTRA

Highlights on the Orchestre in the world of music:

MARIUS WEYER • AND HIS ORCHESTRA

The "Wonderful World of Orchestration"

Conducted by HENRY CLAY

THE BRAZILIAN BAND

"I give my heart"

ORCHESTRA OF THE MOVIE HOUSE

"Wine, Woman and Song"

LIGHT ORCHESTRA OPERA

"The Yeomen of the Guard"

NEW OYSTER ORCHESTRA

"Old Musical Huts Memories"

MARK WEYER AND HIS ORCHESTRA

"Voices of Night"

ARthur WOOD AND HIS ORCHESTRA

"The Moonlight"

11-0 Close down.

11.00 Relaxed from a Simla Studio.

VUD 340.13 metres, 855 kc/s. 31.36 metres, 95,65 kc/s.

p.m.

Available Market Rates

Brunswick Decca Presents

1-0 (Recorded)

Lorenzi "A Clockwork Orange"

"Fried"

DON HAMILTON AND HIS ORCHESTRA

"Twisted Trucks"

BURL MILLER AND HIS ORCHESTRA

"Cotton"

ROY FOX AND HIS BAND

"Cotton"

ALFRED E. GREEN. PIERRE SALIN

AMIRUDDIN, AND HIS ORCHESTRA

"Rhapsody in Blue"

All Times are given in Indian Standard Time.

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RCI RADIO SERVICE

Opera House, Laminaton Road, BOMBAY 4.
Tuesday, 15th September

TRANSMISSION 1.

<table>
<thead>
<tr>
<th>Time</th>
<th>Programme</th>
</tr>
</thead>
<tbody>
<tr>
<td>a.m.</td>
<td>Big Ben: Variety:*</td>
</tr>
<tr>
<td>11-45</td>
<td>Light Musical: The Love Quarto. (Bengali)</td>
</tr>
<tr>
<td>12-0 p.m.</td>
<td>1-0 The B.B.C. Dance Orchestra. * Directed by Harry Hall.</td>
</tr>
<tr>
<td>1-25</td>
<td>The News and Announcements.</td>
</tr>
<tr>
<td>1-45</td>
<td>Close down.</td>
</tr>
</tbody>
</table>

TRANSMISSION 4.

<table>
<thead>
<tr>
<th>Time</th>
<th>Programme</th>
</tr>
</thead>
<tbody>
<tr>
<td>a.m.</td>
<td>Big Ben: Talk * &quot;Imperial Affairs.&quot;</td>
</tr>
<tr>
<td>11-10</td>
<td>From the London Theatre &quot;No. 1.</td>
</tr>
<tr>
<td>11-30</td>
<td>The News and Announcements.</td>
</tr>
<tr>
<td>11-55</td>
<td>Musical Interlude:*</td>
</tr>
<tr>
<td>12-0 p.m.</td>
<td>12-0 midnight The B.B.C. Singers.</td>
</tr>
<tr>
<td>12-30</td>
<td>Promenade Concert.</td>
</tr>
<tr>
<td>2-35</td>
<td>The Bernard Crook Quintet.</td>
</tr>
<tr>
<td>2-50</td>
<td>&quot;Daylight Robbery.&quot; Or The Third in the Night.&quot;</td>
</tr>
<tr>
<td>a.m.</td>
<td>A musical burlesque. By the Millbrook Brothers.</td>
</tr>
</tbody>
</table>

* In Electrical and Gramophone records. Get your own C.I. Broadcasting Network."

Please see the announcement on page 875 regarding the rest of the B.B.C. Transmissions for today.

Useful Books for Radio Amateurs & Servicemen

**PROGRESSIVE TRANSMITTER GUIDE for Radio Amateurs**

Tells you how to build a real high power transmitter. Outlines each progressive step in simple easily followed fashion. Describes, explains and discusses everything in plain lucid language and means a mine of knowledge for all radio amateurs.

**R.C.A. RADIO TUBE REFERENCE BOOK & DIARY**


**CHICAGO TELEPHONE & RADIO COMPANY**

Telephones: "CHIFONE" 129, ESPLANADE ROAD, POST BOX 459, FORT, BOMBAY 2465 & 21406.

All Times are given in Indian Standard Time.

---

**GOLDEN (Berlin)**


10-40 a.m. A Programme of Cheerful Music. 11-45 a.m. Cheerful Music (contd). 12-30 p.m. News and Economic Review in English. 12-45 p.m. Today in Germany, Sound Pictures. 1-0 p.m. Hitler Youth Programme: Children's Music. 1-15 p.m. Artistic Dance Music. 1-30 p.m. Reich Party Day 1936. 2-30 p.m. Famous Musicians: Rudolf Wazke, Bass. 3-15 p.m. Topical Talk. 3-30 p.m. Songs of the German Rhine.

4-30 p.m. Concert of Light Music. 5-50 p.m. Little German Broadcasting ABC. 6-44 p.m. Concert of Light Music (contd). 7-30 p.m. Reich Party Day 1936. 8-21 p.m. Weather Forecast. 8-25 p.m. World News and Reveille. 9-30 p.m. Something of Everything.

**FRANCE** (Radio Colonial)

Wavelength 19.68 m. and/or 25.24 m.


12-25 p.m. Records. 1-0 p.m. Talk on Events in France. 1-15 p.m. Records. 2-15 p.m. News in English, Market Rates, Prices of Exchange. 2-30 p.m. Close down.

3-25 p.m. Day's Programme. 3-30 p.m. Relay from Radio-Paris—Concert. 4-30 p.m. News in English. 4-45 p.m. Concert—Relayed. (Contd). 5-15 p.m. News in French. 5-45 p.m. Concert—Relayed. (Contd). 6-30 p.m. Maritime Talk, by Mr. Breages, 6-40 p.m. Social Topics, by Mr. Rives, 6-50 p.m. Colonial Market Prices, Rates of Exchange. 7-00 p.m. Broadcast Devoted to the Works of Paul Cartes. 8-25 p.m. Rates of Exchange and French Stock (Rentes). 8-30 p.m. Close down.

9-45 p.m. News in French, Market Prices, Rates of Exchange. 10-30 p.m. Concert—Relayed. 11-40 p.m. Relay of Radio-Journal of France (French News). 12-00 p.m. Judicial Talk, by Mr. Henri Delmont. 11-30 p.m. Concert—Relayed. (Contd). 12-00 midnight News in English. 12-30 a.m. News in French, Market Prices, Rates of Exchange. 1-00 a.m. Federal Broadcast. 3-30 a.m. Close down.

**ITALY** (Rome)

Wavelength 25.40 m. and/or 31.34 Metres.

5-13 p.m. Varied programmes. 6-45 p.m. Concert Talk. "Balilla Day—Why?" 7-30 p.m. News in English. Band concert—Rome Police Force Band. Vocal concert—Augusta Quaranta, Giuditta De Vicente, Luigi Bernardi. 10-00 p.m. Vocal concert—Soprano Anna Maria Luisa. 11-00 p.m. Accidenti concert. 11-10 p.m. Concert of Arabian music. 11-30 p.m. Varied programmes.

---

**MISCELLANEOUS ADVERTISEMENTS**

The charge for advertisements in the coloumn at the rate of Rs. 5 for 250 words or less which includes the word "Radio" for every additional word at 10 paise.


TRANSMISSION 2.

GSH 21.47 Mc/s (13.97 m.), GSG 17.79 Mc/s (16.86 m.).

4-50 Big Ben. A Ballad Concert.

Enid Crauchbank (Concerto), Eric Greene (Tenor), Enid Crauchbank (Violin), Catherine Fair (K. Leslie-Smith), Black Roses (Shelley), Eric Greene, The Plague of Love (Arr. Low School), Mary of Alba (Arr. Low School), Enid Crauchbank (That's the Way for Billy), Eric Greene: The Lovely Flower (Bridge).

5-00 The Whitby Municipal Orchestra.

Leader, Tom Jenkins; conductor, Frank Cornet. From the Symphony, 'Round and About', 1913 (2 sym. concertos), The Bandstand, Hyde Park (Haydn Wood). An English Rose (Edward German).

5-30 The News and Announcements.

From the Savoy Hotel, London. Arthur Salisbury and his Orchestra.

6-15 Close down.

TRANSMISSION 3.

GSH 21.47 Mc/s (13.97 m.), GSG 17.79 Mc/s (16.86 m.).

5-30 Big Ben. The B.B.C. Welsh Orchestra.

TRANSMISSION 6.

GSH 15.14 Mc/s (19.82 m.). GSG 9.88 Mc/s (01.32 m.).

a.m.

7-30 Big Ben. A Religious Service

(Methodist).* from Central Hall, Birmingham. Order of Service:


8-21 A Recital.

By Thomas Rees (Violoncello). Great strain in G sharp minor (Rachmaninov).

9-10 Weekly Newsletter

Sports Summary, and Announcements.

9-30 Close down.

* Recorded electrical transmission.

99 Countries Heard

In response to many queries, we give here the full list of countries heard by Mr. H. J. Dent, India’s Champion Listener.


WARDS “Airline” RADIO

A TRIBUTE THAT SHOULD BE A GUIDE FOR THOSE WHO WANT TO PURCHASE "REALLY THE BEST" IN RADIO—

Bagalkot, 19th July 1936.

"I am very glad to inform you that the "Airline" 10-tube Radio taken from you is so good that I cannot write in words, and I thank you very much for it."
Our Listeners’ Troubles Corner

Problems solved by the Technical Service Department

No. 9.—Having built a set with a circuit as shown in the diagram I send you herewith, I find that the reaction is "poppity." It starts with a jerk and as soon as the hand is removed from the dial the reception disappears. Can you suggest a remedy?—P. W. W., Bombay.

The trouble you complain of is known as "hand capacity." The cause of the trouble is that when the hand is put on the tuning or reaction knob, the capacity of the circuit changes. For example, if the station is tuned in with the hand off the dial, it will naturally disappear if the hand is taken off from the dial due to the alteration in the capacity of the circuit. As a rule, "hand capacity effect" is due to a bad lay out of the circuit, and is further accentuated if the moving vanes of the tuning condenser are connected to the grid side of the circuit and the fixed ones to the earth. Check the connections and see that the capacity of the circuit changes.

Your first trouble can be got over by fitting screening cans to the coils. As the screen decreases the efficiency of the coils to which it is applied, it is advisable that screens should be as large (as the surrounding space permits) for the larger screens the less is the damping. Screens should be, at least, not less than ¾ inch all round away from the coils.

Regarding your aerial problem, the new aerial has apparently altered the capacity of the original aerial circuit, and it is due to this change that the tuning condenser has to be adjusted to give a different capacity from that required previously. If you wish to retain the original dial readings, you are advised to connect a small adjustable condenser, say 0.001 mfd, in series with the aerial lead-in and the aerial terminal of the receiver. The most suitable position of this aerial condenser can be found by keeping the tuning condenser at some known position of a particular station you used to get previously, and then vary the aerial condenser till you get the required station. Once this position is found, it should not be altered.

No. 12.—Can you tell me how to eliminate electrical interferences from my set?—R. D., Giridih; B. E. W., Port Blair, Andamans; J. C., Toposi, Burdwan; H. P., Cawnpore; and others.

In our last issue we dealt at some length with the problem, (see Nos. 4 and 7), and in our "On the Air" notes in this issue we also deal with it from another point of view. We also announce the publication of a special series of articles shortly dealing with the problem. Meanwhile, however, we will again deal with it briefly here as it seems to be the most difficult problem facing our listeners in India.

To eliminate interference from electrical machinery, the best remedy is to fit a suppressor (consisting of condensers only or chokes and condensers for serious cases) on the machine which causes the mischief. If it is difficult for you to fit such a suppressor to the interfering equipment (especially if the interfering equipment does not belong to you), the only course left for you is to take some ameliorative steps in your own home.

There are two main routes by which electrical interference can enter your receiver, namely, supply mains and the aerial system. If the interference through the mains is not very serious, it can be easily reduced by connecting two condensers of, say, 4 mfd capacity each in series across the mains where they enter the building, with their junction point joined to the earth. (Condensers should be such as to withstand at least double the working voltage). If the trouble is very serious, it may be necessary for you to insert a choke coil (suitable to carry the current from the mains) in each of the mains.

If the disturbance is arriving in the receiver via the aerial, we would suggest that you run your aerial at a good height and keep it as far away from, and as near as possible at right-angles to, the power, telephone or telegraph lines or any other electrical wiring work, and connect it to the receiver with a shielded lead down, and preferably with one of the various types of impedance adjusting devices consisting of a step-down transformer at the aerial and a step-up transformer at the receiver end. You should have no difficulty in getting an aerial with a shielded lead-in and an impedance adjusting device as there are several kinds of good readily-made anti-static aerials on the market to-day.

No. 13.—Can you tell me how to have a gramophone pick-up for my radio set? At present I have a connection from the grid of the second detector valve to a double-pole switch, but I cannot control the volume.—V. R., Ghatkopar.

This is really too technical and commercial a problem to be dealt with in this column; but here are a few fundamental points to notice.

For receivers which employ one audio stage following the second detector, it is better to connect the pick-up to the input side of the second detector. For receivers which employ two or more stages of audio frequency amplification, the pick-up may be connected to the input circuit of the first audio stage. When the pick-up is connected to the input side of the second detector, necessary circuit changes should be made to decrease the control bias on this detector valve so that it operates as an amplifier when the pick-up is connected for pick-up reproduction.

If the volume control of the receiver is in either the R. F. or detector circuits, it cannot serve the purpose of controlling gramophone pick-up volume. It appears that your pick-up is not already provided with a built-in volume control of its own, so under such circumstances we would advise you to fit an external volume control consisting of a 100,000 or 100,000 ohm potentiometer with its full resistance across the output of the pick-up.

(Please turn to next page.)

August 22, 1936.
Important Notice to Advertisers

The obvious fault in the construction of the universal A.C./D.C. valve is that the frequency of the output is not related to the frequency of the input. This is due to the fact that the output of the valve is determined by the characteristics of the amplifier and the load, rather than by the input signal. Therefore, it is not possible to use a universal A.C./D.C. valve in a system where the output frequency needs to be controlled by the input frequency.

No. 18. The universal A.C./D.C. valve should be used only for applications where the frequency of the output is not critical, or where the output frequency can be controlled by other means. In other cases, it is advisable to use a valve with a more specific characteristic.

No. 17. The universal A.C./D.C. valve is not suitable for use in applications where the output frequency needs to be varied over a wide range, or where the output frequency needs to be controlled by the input frequency. In such cases, it is advisable to use a valve with a more specific characteristic.

No. 16. The universal A.C./D.C. valve is not suitable for use in applications where the output frequency needs to be controlled by the input frequency. In such cases, it is advisable to use a valve with a more specific characteristic.

No. 15. The universal A.C./D.C. valve is not suitable for use in applications where the output frequency needs to be varied over a wide range, or where the output frequency needs to be controlled by the input frequency. In such cases, it is advisable to use a valve with a more specific characteristic.

No. 14. The universal A.C./D.C. valve is not suitable for use in applications where the output frequency needs to be varied over a wide range, or where the output frequency needs to be controlled by the input frequency. In such cases, it is advisable to use a valve with a more specific characteristic.

No. 13. The universal A.C./D.C. valve is not suitable for use in applications where the output frequency needs to be varied over a wide range, or where the output frequency needs to be controlled by the input frequency. In such cases, it is advisable to use a valve with a more specific characteristic.

No. 12. The universal A.C./D.C. valve is not suitable for use in applications where the output frequency needs to be varied over a wide range, or where the output frequency needs to be controlled by the input frequency. In such cases, it is advisable to use a valve with a more specific characteristic.

No. 11. The universal A.C./D.C. valve is not suitable for use in applications where the output frequency needs to be varied over a wide range, or where the output frequency needs to be controlled by the input frequency. In such cases, it is advisable to use a valve with a more specific characteristic.

No. 10. The universal A.C./D.C. valve is not suitable for use in applications where the output frequency needs to be varied over a wide range, or where the output frequency needs to be controlled by the input frequency. In such cases, it is advisable to use a valve with a more specific characteristic.

No. 9. The universal A.C./D.C. valve is not suitable for use in applications where the output frequency needs to be varied over a wide range, or where the output frequency needs to be controlled by the input frequency. In such cases, it is advisable to use a valve with a more specific characteristic.

No. 8. The universal A.C./D.C. valve is not suitable for use in applications where the output frequency needs to be varied over a wide range, or where the output frequency needs to be controlled by the input frequency. In such cases, it is advisable to use a valve with a more specific characteristic.

No. 7. The universal A.C./D.C. valve is not suitable for use in applications where the output frequency needs to be varied over a wide range, or where the output frequency needs to be controlled by the input frequency. In such cases, it is advisable to use a valve with a more specific characteristic.

No. 6. The universal A.C./D.C. valve is not suitable for use in applications where the output frequency needs to be varied over a wide range, or where the output frequency needs to be controlled by the input frequency. In such cases, it is advisable to use a valve with a more specific characteristic.

No. 5. The universal A.C./D.C. valve is not suitable for use in applications where the output frequency needs to be varied over a wide range, or where the output frequency needs to be controlled by the input frequency. In such cases, it is advisable to use a valve with a more specific characteristic.

No. 4. The universal A.C./D.C. valve is not suitable for use in applications where the output frequency needs to be varied over a wide range, or where the output frequency needs to be controlled by the input frequency. In such cases, it is advisable to use a valve with a more specific characteristic.

No. 3. The universal A.C./D.C. valve is not suitable for use in applications where the output frequency needs to be varied over a wide range, or where the output frequency needs to be controlled by the input frequency. In such cases, it is advisable to use a valve with a more specific characteristic.

No. 2. The universal A.C./D.C. valve is not suitable for use in applications where the output frequency needs to be varied over a wide range, or where the output frequency needs to be controlled by the input frequency. In such cases, it is advisable to use a valve with a more specific characteristic.

No. 1. The universal A.C./D.C. valve is not suitable for use in applications where the output frequency needs to be varied over a wide range, or where the output frequency needs to be controlled by the input frequency. In such cases, it is advisable to use a valve with a more specific characteristic.
## SELECTED LONG AND MEDIUM BROADCASTING STATIONS.

**ARRANGED IN ORDER OF WAVELENGTHS.**

<table>
<thead>
<tr>
<th>Kw.</th>
<th>Station</th>
<th>Metres</th>
<th>Kc/s</th>
<th>Kw.</th>
</tr>
</thead>
<tbody>
<tr>
<td>60</td>
<td>Toulouse (Radio Toulouse) (France)</td>
<td>355.6</td>
<td>60</td>
<td>60</td>
</tr>
<tr>
<td>160</td>
<td>Moscow IV (U.S.S.R.)</td>
<td>344.8</td>
<td>120</td>
<td>160</td>
</tr>
<tr>
<td>250</td>
<td>Moscow II (U.S.S.R.)</td>
<td>334.8</td>
<td>120</td>
<td>250</td>
</tr>
<tr>
<td>300</td>
<td>Milan I (Italy)</td>
<td>324.8</td>
<td>120</td>
<td>300</td>
</tr>
<tr>
<td>350</td>
<td>Munich (Germany)</td>
<td>314.8</td>
<td>120</td>
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<tr>
<td>400</td>
<td>Nanking (China) XGOA.</td>
<td>304.8</td>
<td>120</td>
<td>400</td>
</tr>
<tr>
<td>450</td>
<td>Prague I (Czechoslovakia)</td>
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<td>Haguenau (France)</td>
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<tr>
<td>600</td>
<td>Canton (China)</td>
<td>264.8</td>
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<td>650</td>
<td>Shanghai (China)</td>
<td>254.8</td>
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<tr>
<td>700</td>
<td>Hankow (China)</td>
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<td>700</td>
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<tr>
<td>750</td>
<td>Formosa (Formosa Islands)</td>
<td>234.8</td>
<td>120</td>
<td>750</td>
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<tr>
<td>800</td>
<td>Hong Kong (China)</td>
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<td>120</td>
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<td>850</td>
<td>Shanghai (China)</td>
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<td>1000</td>
<td>Shanghai (China)</td>
<td>184.8</td>
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</tbody>
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## SELECTED SHORT-WAVE BROADCASTING STATIONS.

**ARRANGED IN ORDER OF WAVELENGTHS.**

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<tr>
<th>Station</th>
<th>Metres</th>
<th>Kc/s</th>
<th>Kw.</th>
</tr>
</thead>
<tbody>
<tr>
<td>25.29</td>
<td>Daventry (Switzerland)</td>
<td>38.48</td>
<td>7,797</td>
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<td>Daventry (Switzerland)</td>
<td>38.48</td>
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<tr>
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<tr>
<td>28.04</td>
<td>Daventry (Switzerland)</td>
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<td>28.24</td>
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<tr>
<td>37.60</td>
<td>Daventry (Switzerland)</td>
<td>38.48</td>
<td>7,160</td>
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</tbody>
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*Note: The table above contains only a portion of the stations listed in the original document. For a complete list, please refer to the original source.*
<table>
<thead>
<tr>
<th>STATIONS</th>
<th>METRES Kc/s</th>
<th>I. S. T.</th>
<th>STATIONS</th>
<th>METRES Kc/s</th>
<th>I. S. T.</th>
<th>STATIONS</th>
<th>METRES Kc/s</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pittsburg Pa</td>
<td>13.95</td>
<td>5-30 to 6-30 p.m. daily</td>
<td>Buenos Aires (Ar)</td>
<td>31.32</td>
<td>Daily 6-30 to 7-30 a.m.</td>
<td>Nairobi (Kenya)</td>
<td>49.31</td>
</tr>
<tr>
<td>Bandoeng, Java</td>
<td>11.93</td>
<td>7-30 to 8-30 Tuesdays, Thursdays, Saturdays</td>
<td>Schenectady (N. Y.)</td>
<td>31.48</td>
<td>Daily 2-30 to 9-30 a.m.</td>
<td>Vienna (Austria)</td>
<td>49.41</td>
</tr>
<tr>
<td>Bangkok, Siam</td>
<td>18.85</td>
<td>6-30 to 8-30 a.m. daily</td>
<td>Jelony (Norway)</td>
<td>31.48</td>
<td>Daily 3-30 to 5-30 p.m. and 9-30 a.m.</td>
<td>Cincinnati (Ohio)</td>
<td>49.70</td>
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<tr>
<td>Schenectady, N. Y.</td>
<td>19.57</td>
<td>10-30 to 11-30 a.m. daily</td>
<td>Moscow, U.S.S.R.</td>
<td>31.51</td>
<td>Daily except Sunday, 2-30 to 4-30 p.m.</td>
<td>Philadelphia (Pa)</td>
<td>49.50</td>
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<tr>
<td>Buenos Aires, Arg</td>
<td>19.62</td>
<td>9-30 p.m. to 6-30 a.m. irregular</td>
<td>Melbourne (Australia)</td>
<td>31.53</td>
<td></td>
<td>Cincinnati (Ohio)</td>
<td>49.66</td>
</tr>
<tr>
<td>New York, N. Y.</td>
<td>15.20</td>
<td>10-30 a.m. to 4-30 p.m. 6-30 to 9-30 a.m. daily</td>
<td>Havana (Cuba)</td>
<td>31.82</td>
<td>Daily 12-30 midnight to 8-30 a.m. and 6-30 to 9-30 a.m.</td>
<td>Barranquilla (Col.)</td>
<td>49.65</td>
</tr>
<tr>
<td>Pontoise, France</td>
<td>19.68</td>
<td>4-30 to 8-30 a.m. daily</td>
<td>Budapest, Hungary</td>
<td>32.88</td>
<td>6-30 to 7-30 p.m.</td>
<td>Panama City (Pana)</td>
<td>49.73</td>
</tr>
<tr>
<td>Pittsburg, Pa</td>
<td>15.24</td>
<td>7-30 p.m. to 4-30 a.m. daily</td>
<td>Hongkong (China)</td>
<td>34.29</td>
<td>Daily 9-30 to 11-30 a.m. and 2-30 to 3-30 p.m.</td>
<td>Singapore (S.S.)</td>
<td>49.81</td>
</tr>
<tr>
<td>Vatican City (Italy)</td>
<td>19.84</td>
<td>Daily except Sunday, 3-30 to 4-30 p.m.</td>
<td>Tokio (Japan)</td>
<td>39.91</td>
<td>Daily 5-30 to 7-30 p.m.</td>
<td>Bogota (Colombia)</td>
<td>49.81</td>
</tr>
<tr>
<td>Tokyo, Japan</td>
<td>20.53</td>
<td>4-30 to 5-30 a.m. daily</td>
<td>Tenerifí (C. I.)</td>
<td>41.61</td>
<td>Daily 6-30 to 7-30 p.m.</td>
<td>Bogota (Colombia)</td>
<td>49.81</td>
</tr>
<tr>
<td>Tel Aviv</td>
<td>22.94</td>
<td>9-30 to 11-30 a.m. irregular</td>
<td>Georgetown (Br. Guiana)</td>
<td>42.37</td>
<td>Daily 2-30 to 6-30 a.m.; on Sundays 5-30 to 8-30 p.m.</td>
<td>Singapore (Malaya)</td>
<td>49.81</td>
</tr>
<tr>
<td>Casablanca, Morocco</td>
<td>23.38</td>
<td>6-30 to 8-30 p.m. on Sundays</td>
<td>San Jose (Costa Rica)</td>
<td>44.71</td>
<td>Daily 4-30 to 7-30 a.m.</td>
<td>Havana (Cuba)</td>
<td>49.81</td>
</tr>
<tr>
<td>Moscow, U.S.S.R.</td>
<td>25.00</td>
<td>5-30 to 8-30 p.m. on Sundays</td>
<td>Guayaquil (Ecuador)</td>
<td>45.11</td>
<td>Daily 5-30 to 8-30 a.m.</td>
<td>Mexico City</td>
<td>49.81</td>
</tr>
<tr>
<td>New York, N. Y.</td>
<td>15.20</td>
<td>10-30 a.m. to 4-30 p.m.</td>
<td>Moscow (U.S.S.R.)</td>
<td>45.38</td>
<td>Daily 6-30 to 7-30 p.m.</td>
<td>Moscow (U.S.S.)</td>
<td>48.70</td>
</tr>
<tr>
<td>Pontoise, France</td>
<td>15.12</td>
<td>9-30 to 11-30 a.m. irregular</td>
<td>Valencia (Venezuela)</td>
<td>46.36</td>
<td>Daily 9-30 to 11-30 p.m. and 3-30 to 7-30 a.m.</td>
<td>Vatican City (I.)</td>
<td>48.70</td>
</tr>
<tr>
<td>Schenectady, N. Y.</td>
<td>15.33</td>
<td>6-30 to 8-30 p.m. on Sundays</td>
<td>San Jose (Costa Rica)</td>
<td>46.87</td>
<td>Daily 10-30 to 11-30 p.m. and 4-30 to 8-30 a.m.</td>
<td>San Jose (Costa)</td>
<td>49.81</td>
</tr>
<tr>
<td>Rome (Italy)</td>
<td>31.13</td>
<td>11 a.m. to 5 p.m. daily</td>
<td>Caracas (Venezuela)</td>
<td>47.05</td>
<td>Daily 3-30 to 8-30 a.m.</td>
<td>Mexico City</td>
<td>49.81</td>
</tr>
<tr>
<td>Rome (Italy)</td>
<td>11.12</td>
<td>10-30 a.m. to 5 p.m. daily</td>
<td>Colombo</td>
<td>48.70</td>
<td>Daily 3 p.m. to 10 p.m.</td>
<td>Moscow (U.S.S.)</td>
<td>48.70</td>
</tr>
<tr>
<td>Tokyo, Japan</td>
<td>27.95</td>
<td>10-30 a.m. to 5 p.m. daily</td>
<td>Winnipeg (Canada)</td>
<td>48.78</td>
<td>Daily 6-30 to 9-30 p.m.</td>
<td>Vatican City (I.)</td>
<td>49.81</td>
</tr>
<tr>
<td>Tokyo, Japan</td>
<td>17.20</td>
<td>10-30 a.m. to 5 p.m. daily</td>
<td>Caracas (Venezuela)</td>
<td>48.78</td>
<td>Daily 2-30 to 7-30 p.m.</td>
<td>San Jose (Costa)</td>
<td>49.81</td>
</tr>
<tr>
<td>Tokyo, Japan</td>
<td>28.01</td>
<td>9-30 a.m. to 6-30 p.m. irregular</td>
<td>Santiago (Cuba)</td>
<td>48.78</td>
<td>Daily 1-30 to 8-30 a.m. and 7-30 to 9-30 p.m.</td>
<td>Hongkong (Chi)</td>
<td>49.81</td>
</tr>
<tr>
<td>Medan, Sumatra</td>
<td>28.76</td>
<td>4-30 to 5-30 p.m. daily</td>
<td>Pittsburg (Pa)</td>
<td>48.86</td>
<td>Daily 7-30 to 10-30 a.m.</td>
<td>Sourabaya (Java)</td>
<td>49.81</td>
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<tr>
<td>Bandung, Java</td>
<td>29.24</td>
<td>3-30 to 7-30 p.m. daily</td>
<td>Lourenzo Marques (Africa)</td>
<td>48.89</td>
<td>Daily 10-30 p.m. to 12-30 midday; Sundays from 6-30 to 9-30 p.m.</td>
<td>Kharbarovsk (S.R.)</td>
<td>49.81</td>
</tr>
<tr>
<td>Madrid, Spain</td>
<td>30.43</td>
<td>3-30 to 7-30 a.m. daily</td>
<td></td>
<td>46.73</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Macao (China)</td>
<td>51.00</td>
<td>Monday &amp; Friday, 1-30 to 2-30 a.m.</td>
<td></td>
<td>6,316</td>
<td></td>
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<tr>
<td>Lisbon (Portugal)</td>
<td>51.01</td>
<td>Wednesday Friday, Saturday and Sunday, 1-30 to 4-30 a.m.</td>
<td></td>
<td>6,120</td>
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<tr>
<td>Rome (Italy)</td>
<td>51.13</td>
<td>Daily 12-30 to 2-30 a.m.; Tuesday, Thursday and Saturday, 4-30 to 6-30 a.m.</td>
<td></td>
<td>40.21</td>
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</tr>
<tr>
<td>Rome (Italy)</td>
<td>47.93</td>
<td>Dailies from 9-30 to 10-30 p.m.</td>
<td>Havana (Cuba)</td>
<td>48.92</td>
<td>Daily 4-30 to 9-30 a.m.</td>
<td>Ponta Delgad</td>
<td>49.81</td>
</tr>
</tbody>
</table>