SHRI BHUPESH GUPTA: This is the thing which should not be allowed.

Mr. CHAIRMAN: Your observations should not be allowed and his should not be allowed either.

SHRI BHUPESH GUPTA: Here we are a party, and when the Prime Minister of the country makes such a remark it cannot be allowed to go unchallenged.

I am very sorry that Mr. Patel does not have even that much of sports-manship in respect of this matter.

Mr. CHAIRMAN: All right; we now pass on to the next item.

THE INSTITUTES OF TECHNOLOGY (AMENDMENT) BILL, 1963—continued

Mr. CHAIRMAN: The other day Mr. Khandekar had concluded his speech. There are others who would like to speak. Mr. Sapru.

SHRI P. N. SAPRU (Uttar Pradesh): Mr Chairman Sir while wholeheartedly supporting the Bill, I should like to pose a number of questions for the Minister and I do so in no spirit of criticism but in a spirit of enquiry. First of all, I would like to know why there should be a separate institution at all. We have the Delhi Universty which is a first class institution and why should this Institute not be affiliated to the Delhi University? I rather think that the tendency to have separate institutions has been carried a little too far and it strikes me that one-faculty universities not likely to yield those results which a university should yie'd.

[THE DEPUTY CHAIRMAN in the Chair]

The second question I would like to ask the Minister is whether there is going to be any provision for the teaching of humanities in this Tech-

nological Institute. I think that there should be some connection or some relationship established between humanities and sciences. We should not have them compartmentalised. If we have them compartmentalised then we leave our technical students without that philosophy of life which the humanities are capable of supplying. Students of technology should have some acquaintance with the humanities as well.

The third point I would like to emphasize is that the number of persons, who would seek decent jobs after education in technology, All the men who get a high technical education are not able to get decent jobs. Perhaps the Minister will be able to tell us whether the demand for technologists is not greater than the number of men produced by the technological instituequilibrium should tions. An be established between the two. Now. it is obvious that it is the scientific technical education that has made the United States of America. Britain and Russia great. It has particularly made Russia great. The problem that Britain has to face is that the technical men, the scientific men, prefer the U.S.A. to Britain. There was recently a debate in the House of Lords on this question and it was said that the reason for their preference of the United States was that the facilities in Britain were not as good as the facilities in the United States.

It was not a question of pay. Certainly the salaries in the United States are higher, but it was not just a The facilities salaries. question of in the United States are better. Now, one of the difficulties that we have to face is that some of our best men remain in foreign service in preference to service in their own country. They prefer the United Kingdom or the United States to India and we have to find out the reason for that It is all right to talk of sacrifice, but I rather believe that what we need in our scientists is dedication and not sacrifice. The salaries of I.A.S. men and I.P.S. men are higher than the salaries that we pay to our technical men. The salaries that we pay to our technical men, the salaries that we pay to our scientists, should be higher than the salaries that we pay to our I.A.S. and I.P.S. men. We should try and attract the best talent that is available in the country to science and technology.

Then, I should like also to make one or two observations on the quality of staff in these institutions. The quality of the staff in these institutions depends upon the integrity of the selection committees. Now. T am glad that the U.P.S.C. will he responsible, as far as I can see, for selecting the staff. The U.P.S.C. has established a high reputation, but it has to be helped by experts. I hope that in appointing experts care will be taken to see that the very men are selected for advising the U.P.S.C. in regard to appointments to these jobs. I know that in some of the States highly qualified technical men have been ignored. Men with less qualifications have been preferqualificared to men with higher That is not how things should Class and communal considerations have often played their part in the appointment of men in our scientific and technical institutions.

I would like to say that the question of admission to these institutions is also of an important character. I am for admission of the best candidates on merits to these institutions, but I would like to make one or two reservations in regard to this question of merit. We have the backward classes or the Scheduled Castes in this country. For centuries they have been victims of oppression and tyranny in this country and it is not possible for them

SHRI AKBAR ALI KHAN (Andhra Pradesh): They get preference in

their State colleges. Do you want it in all-India institutions also?

SHRI P. N. SAPRU: I think they should be given preference in all institutions, including all-India tutes. They should have opportunities of rising to their full stature. It may be desirable to some extent to expect lower standards from them for period of five or ten years. I would like, therefore, the claims of these classes not to be ignored. I suppose there will be competitive tests, supplemented by oral tests, for these institutions. The oral test does not generally work in favour of the poor man. That is what I should like to emphasise. -

Then, I should like to say am not one of those who think that third class students can do no good or can never be good. I am not prepared to have an arbitrary rule ruling. out the third class man. I have heard a great deal of controversy about third class men. I want just to remind House that two of Britain's greatest Prime Ministers were fourth class graduates of Oxford. Sometimes a man matures late in life and just because he has got a third class. he should not be denied opportunities of higher education or the highest education available in the country. course, the general rule should be to select, as far as possible, the very best men and the very best men will naturally be the first and second class men turned out by our universities. For this reason it would be obvious to you, Madam, that I am not opposed. for a short period, say, five or ten years, to reservation in some shape or other being made in favour of the backward and depressed classes. To expect that these candidates will in the immediate future equal the best candidates from non-scheduled the castes, is to expect the impossible. Their home surroundings are different.

Then, there is another matter on which I should like to speak and I would like the Minister to take some

interest in it. The difficulty with our science departments is this. It is true also of our art departments. But I am taking about the departments of science and technology because we have a Bill dealing with science and technology. The difficulty with science departments is that senior men do not encourage juniors in their work. The Heads of Departments are rather jealous of talent. I read remarkable article on this point in the "Spectator" five or six years back. I do not happen to have the copy of the "Spectator" with me, but I have a clear collection of what the writer The article was headed: case of Dr. Joseph'. The writer said that there is no doubt that Mr. Nehru is anxious that science should develop in India. He is very eager that there should be development of science in this country. He further said that there is no doubt that there are a few good scientists in this country, though the number of outstanding men is very small. He went on further to say that there was good scientific material in our country, and he pointed out that some of our laboratories at the technological institutions were good. But he said that in spite of all that the output was poor. Then he asked himself the question, why the output was The principal reason that he assigned for this poverty of output was that senior men were jealous of talent; Heads of Departments and Deans of Faculties were not sure of themselves and they did not want their junior to outshine them. some οf the western countries it is just the other way about. reading the other day T Ernest Barker's "Age and Youth". and Ernest Barker says in that book that he used to look upon his pupils as projections of himself. I have liked teachers to look upon their pupils as projections of themselves. Unfortunately, speaking with all respect to the teaching profession, that is I have had personal not the case. experience, and I have known cases where highly qualified men have not been preferred to less qualified men because the teacher or the Head of

the Department or the Dean of the Factulty is a little jealous of talent. This is a sorry state of things, and we should impress upon our men that it is their bounden duty to be fair and objective in their assessment of the work of their juniors. It is their duty to help their juniors in every way possible.

I should like also to say that we have not been supplied with the details of the constitution which will govern this Institute. On the Board of this Institute, Parliament should also find some representation. I think there is talent, even scientific talent, in Parliament, and Parliament should have representation on this Board. It is desirable that there should be direct contact between the institution and Parliament.

Then we have, I think, four institutions-Mr. Humayun Kabir correct me if my number is wrong. But since we are having separate institutions or one-faculty universities-I call them one-faculty universities since we are having one faculty only I think it is desirable that these institutions should be larger in number than they are. We are a country of 450 millions. We have to think the claims of the South, we have to think of the claims of Bengal, and we have to think of the claims of States other than Uttar Pradesh Pradesh, Rajasthan and Punjab. These States are very important but they should not dominate the picture and, therefore, it is desirable that should have institutions in the South of a high character also. There is a lot of talent particularly scientific talent, in the South. After all, it is the South that produced Ramanujam, it is the South that produced Raman, it is the Punjab which has produced Birbal Sahni. I do not know what the exact contribution of Uttar Pradesh is to scientific knowledge, and I think it is a matter for investigation why the Punjab is forging ahead and why the South is forging ahead and we

[Shri P. N. Sapru.]

lagging behind. I say this with regret because I am proud of Uttar Pradesh, we have high traditions. We have good universities, but the standards of our universities and our institutions are going down.

Prof. M. B. LAL (Uttar Pradesh): Are you proud of it?

Shri P. N. SAPRU: No, I am not proud of it. I am sure that Prof. Lal who can teach me political science for at least twenty years will bear me out that I am right. He was one of the best teachers of political science in our State, a subject in which I am interested. There are many reasons for this decay in standards in Uttar Pradesh. One of these reasons is the apathy of the general public towards higher education.

Then, I should like also to say that there is a tendency here to expect that science will yield or scientific knowledge will yield immediate results. There is more emphasis here on what is called applied science than on pure science. Now, I am not a scientist but I rather think that fundamental research is of great importance. Fundamental research is the pivot round which applied research revolves. You cannot have good applied research without fundamental research. should be paid to fundaattention mental research in these institutions. We are not, in this country, aware of the true scope and magnitude of the growth of scientific thought and knowledge. Science has progressed in the U.S.S.R., science has progressed in the U.S.A., science has progressed even in the U.K., because attention has been paid to science. Unfortunately here our education in the past has been far too literary. Even in the field of literature our output is poor because while we have paid and rightly paid attention to expansion, we have not paid enough attention to efficiency. We have not recognised that creative

effort is necessary for human welfare. We have not recognised that without creative effort life would be not worth living, and we have not recognised that without creative effort great things cannot be accomplished. And we must give scope for development of creative effort in our institutions. This will require overhaul of our educational system. Our educational system is dominated by old ideas. We have to imbibe some of the new spirit that pervades other countries and we should, in this matter, take a lesson from the West and from the Soviet Union, I see no reason why we should not send some of our men for training in science to the U.S.S.R. and the U.S.A. We can select a few top-ranking men give them facilities to go abroad and broaden their vision and outlook, and they are sure to render a better account of themselves than is the case at present.

I would suggest that our very able Minister of Scientific Research and Cultural Affairs, who is also incharge of Education should set up a Research Bureau whose main task will be to carry out research in all the branches of knowledge including sociological knowledge. Efforts should be made to integrate scientific thought and method with aspects of national life. There should be a connection established between scientific thought and national life. That effort will require a great deal of thinking and research and I think the Minister should rise There should be a to the occasion. Bureau of Scientific Research attached to the Ministry for this purpose. Our efforts should be to promote independence of thought, and we should try and give all possible facilities creative effort so that our country may become scientifically great. If it becomes scientifically great, it will become militarily great because military greatness today means greatness in science. We are not living in the days of Rana Pratap, we are living in a thermo-nuclear age, and it is scientific greatness which will help us to achieve military greatness, assuming that military greatness is a desirable ideal.

Thank you very much for the time that you have given me.

SHRI SANTOKH SINGH (Delhi): Madam Deputy Chairman, I rise support the Institutes of Technology (Amendment) Bill, 1963. The object of the amending Bill is to upgrade the present College of Engineering and Technology at Delhi into a full-fledged Indian Institute of Technology, It is stated that the United Kingdom through its British industries has increased the assistance from £2,50,000 to f6,50,000 for equipment and will also make available services of five more Professors in addition to the already existing ten Professors. Britain is also understood to have undertaken to help us in training Indian staff for this Institute in Britain itself.

I welcome this move for upgrading the Delhi College of Engineering and Technology into a regular Institute of Technology. This is in addition to the already existing four Institutes of Technology at Kharagpur, Bombay, Madras and Kanpur. This will add to the training of technical people in India more and more. Because of the fast rate of industrialisation in India, we require more of tenchnical men-As a matter of fact, the need for technical people is much more than what our technical institutions are able to produce today. In this august House, it was said the other day that number of technical men was more and that they were not getting em-Maybe at some 'places ployment. there is a little unemployment. It may be for some time only. But ultimately, the number of these technical people required is going to be much more than we can think of. To give the example of the U.S.A., only a few years back it was stated that especially during the period when the space research work was going on, they felt a shortage of about one thousand people and they had to import them from England and other countries—chemists, engineers and scientists—to cope with the work. So, similar is the case in our country. With increased industrialisation, we will be requiring more of technical personnel.

Regarding the quality of these technical men. I want to a point that in our institutes we should try to have better people to them. The staff should be very good so as to make this Institute of Technology at Delhi the pride of It is said that good talent does not come to these Institutes because the teachers are not very well paid. I wish that the Minister of Scientific Research and Cultural Affairs should take a special interest and invite very nice talent to this institute by paying the highest scales of salary. should generally be done. I certainly want that all the teachers of Institutes and engineering colleges should be very well paid so that can attract the best of talent. This is regarding the quality of the teachers so as to train good quality people.

I also want to make a point as regards the Institute of Technology at Delhi since I represent the State of Delhi in this august House. I to make a point regarding admissions. We have various engineering colleges and institutes in all the States of the Indian Union. They somehow or the other—because of regional feelings-do not admit outsiders in their institutes. In our Institute at Delhi and at other colleges we admit all the students from the Indian Union and the Union Territories. I want to say that some reservation should be made in the colleges of the other States for the students of Delhi and, as far as the Institute of Technology is concerned, some sort of reservation, say, about 25 per cent. should be made for the students of Delhi. so that the parents in their wards admitted can get into these Institutes. I may not criticised for this because if we were to consider the point of view of admissions in the context of the regional feelings of the other States, I think my point will be fully appreciated. But, on this point, I want to make it clear that while making reservations, I do not in any case recommend that third class students or students who are deficient-I would not say they are bogus because honourable Mr. Sapru has said some third class and fourth class students also come ultimately. I call them deficient students-may be admitted into these institutions and colleges. But at least good students from the Delhi State should be given precedence over others so that we can feel proud the whole country would feel proud of this Institute. So Delhi students also should get this reservation.

Now, a point has been made Shri Bhargava twice in this august House regarding the scientists, engineers and chemists who have taken up employment in other countries. To some extent, I do agree with him that they should possibly be brought back to serve our own country. There is need of everybody, specially of good scientists and good engineers could be very useful. But, Madam, on this point I do not agree with him wholly. I should say that on the next point I wholly disagree when he says on the floor of the House that wants them to come back. If they get some employment there, well and good. To say that the best of them are there, I do not agree. No doubt there are facilities in other countries. They get employment because our dollars people do work worth two even though they may be paid one dollar; they serve very well. And

they get employment easily. But to say that they are the best I do agree because the best people only those who come back, not only get employment in the Government of India on lower salaries, but as a matter of fact, the best are those who can start something at their initiative in the country. And that kind of people we are producing daily in our own institutes, in our own universities. The number of these people is quite large in thousands. So we should not think in terms of bringing these people back. We think in terms of increasing the output of engineers and scientists. Therefore, the number of institutes must be increased.

I support, Madam, the second point of Shri P. N. Sapru that some Members of Parliament must be associated with these institutes to make them take more interest. I support this remark of Shri Sapru.

Honourable Shri P. N. Sapru made another point. While Madras and Punjab have been able to produce men of technology, men of science, perhaps much more than his own State of U.P., I want to say one word about Punjab. I am proud our men have been of great intelligence. They have been good men of technology, industry and peasantry and they have done very well. They are healthy. They are intelligent.

SHRI ARJUN ARORA: (Uttar Pradesh): And charming too.

SHRI SANTOKH SINGH: Charming too.

SHRI P. N. SAPRU: As Mr. Arora.

SHRI ARJUN ARORA: I am a U.P. walla, as Mr. Santokh Singh is.

SHRI SANTOKH SINGH: One more point and I resume my seat. It is again regarding Shri Sapru's speech

which has been very, very educative and illuminating. He discussed the point about fundamental research. It is of great importance and very useful. We have produced scientists of the calibre of Shri Raman, Shri Ray, Shri Jagdish Chandra Bose. We have had Nobel Prize winners in our country. But for our country, situated as it is today, to think only in terms of fundamental research is not inkeeping with the times. Our gross national product totals about Rs. 17,000 crores. We are not spending much on research work. But whatever is spent on research work should be meant for industry as it is applied to large-scale, medium-scale and smallscale industries and technology rather than simply spending on fandamental research. We cannot afford it. No doubt other countries like U.S.A. or the U.S.S.R. are spending huge amounts of money on ductive research work, for example space research. But we cannot afford We can go only the Japan pattern. They are doubling their gross national product in about ten years instead of 6 years. If they are able to double their income in ten years why can we not do it? They spending quite a lot on research work. The research work that they do for productive purposes as it is applied to industry. Our country is situated in that position now. So I would like to make this point clear, Fundamental research is not the only thing needed but we want research work as applied to productive purposes.

With these observations, Madam, I commend this Bill and resume my seat.

شری عبدالغنی (پنجاب): میتم قیتی چیرمین - هزار برس هوئے که اپنا دیم اس سائنس کی دنیا میں بھی سب سے آگے تیا - آپ کو یاد هونا که بهگوایی کرهن اور ویر ارجن دوتوں ساتھ ساتھ جا رہے تھے تو

سامنے سے ایک نفاا یاؤں سہاھی آرھا تھا تو بھگوان کرشن نے ارجی سے کہا کہ یہ ہوا زبردست ہے اور اس کے پا*س ایسے* شستر هیں جو هماری تمام فوے کو تھالا و ہوہاد کر دیں گے۔ وير ارجن ہوے حمران ہوئے اور کہا که کیا کیا جائے - اس پر انہوں نے کہا کہ ہم سادھوؤں کے بھیس میں میں اور اس سے بهکشا مانکتے هیں جب ولا مان جائية تو أس كا سر مانكهن گه - پهر ارجن نے آگه کها که وه شسعر کہا میں تو انہوں نے کہا میں اس کا تجویہ کوائے دیاتا ھوں اس سپاھی نے بتلایا که جب یه چیز چهوتیکی تب اس سے درخت كا هر ايك بند جيلني هو جائيكا تب بھکواری نے کہا کہ جھوڑو اور انہوں نے ایک درضع کا یته اپلے . پاؤں کے نہجے رکہ لہا اور تمر اتر آیا اس پر ارجن کو احساس هوا که یه كوئي خطوناك أدمي هي ولا كها جهز تهی ایتم بم تها یا تهر تها مهن نهیں جانتا اور نه میں اس بات پر يوتا هون لهكن اس هنيا مين أور سائٹس کی دنھا میں بھارس آگے نکل کیا تھا جو هم سب کے لگے گورو کی بات ھے ۔

آج مجھے خوشی ہے که ایک نوجوان مفستو اس نازک مسئلہ میں دلتچسپی لے رہے میں کی دنیا ہے ؟ انتسالوں کے لئے ریسرچ موں ، ملک کی ترقی کے لئے ریسرچ موں

[شرى عبدالغني] کوششهن هون ۽ يه اچهي بابعا هے -مهن متحسوس كرتا هون كه اكر مهن منستر صاحب کو مهارکهاد دون تو اس مین کوئی فلطی نهین ھوگی کہ وہ اپنے دیش کو پہر سے ایک بار ابهرتا دیکهاا چاهتے هیں -جو طالب علم هيس اور جن کا دماغ اس طرح سے جلتا ہے ان کو زیادہ سے زیادہ موقعہ تہکنیکل کالجوں میں پڑھنے کے لئے دیا جانا چاھیئے اور اس کام کے لئے جتنی رتم ہو وہ اس میں لکائی جانی چاهیئے لیکن هم يه نهيس لكا يا رهم هيس اس كا كارن یت هے که هم دکهاوے کے لگے اور دنیا کو بہلانے کے لگے ان دو چھزوں ہر اینا رویهم زیاده برباد کر رهے هیں -

دو سوال بهت اهم يهان المه -ایک جو بھارگو جی نے اٹھایا کہ جو **فیزرو کرتے هیں ان کو موقعه نہیں** ملتا ان کے ساتھ انھاے ہوتا ہے چاہے اں کے نمبر کتائے ھی زیادہ کیوں نہ ھوں۔ اور دوسرا ھمارے دیعی کے قابل فنصر بزرگ سپرو صاحب نے الهايا كه جتنى أيسى جماعتين هين جهسے پبلک سروس کیهشن هیں مشتلف استهتر میں تو کئی استهتهن ایسی هیں که جهان جو تدر کے قابل میں جن کی قدر کی إنجاني چاهيئے جو تيزرو کرتے هيں ان کا حق جهدن لها جاتا هـ -

میدم - میں سہرو ساحب کے ساتھ اتفاق رکهتا هون - کئی استیتون مهن أيسى حالت هے كه كهي پېلک سروس کيهن کو پچاس پرسفت کا کہتے ھیں که تم کوٹه بههیم در اور اس مهی بهی تم اتفا زيادة بهيجو جس مين هم اينا انتخاب کر سکیں ۔ کیمی وہ ۲۵ پرسنت کا کر دیا جاتا ہے کبھی كجه كر ديا جاتا هـ - لهكن خير -یه حکومت کے اہلی جگه کے کارنامے هیں وہ کرتے رهیں - معهے ایک دکھ ھے کہ اس طرح کے جو ھمارے بهترین یا قابل فضر لوگ هیی ان میں سے کچھ ہوے فیمس آدمیوں نے غودكغى كولى ھاراكهرى كولى-جن میں ایک مسٹر کلڈیر تھے اور ایک اینکلو اندین تھے جن کا نام مهرے دماغ سے نکل گھا ھے - ولا بوے هی قابل سائنتست تم اور اتھوں نے ھاراکھری کی کھونکھ ھم لوگ ان کی قدر نہیں کر پائے - جتنا وہ تيزرو كرتے هيں همارا اپريسيهن اس کے بحالے همارا سلوک اس سے اتدا برا ھے کہ جس سے بحجائے اس کے کہ ان كم قابلهم كا همين فائدة يهنهنا انہوں نے خودکشی کرنی - اس لیے جهسا سب نے کہا یہاں قابل آدمیوں کو اتفا ہو کہ وہ یافر کے ملکوں کی طرف نه دیکهیں اور ان کے دماغ سے هم يهي فائده اتهائين - مستر كلتُهر بہترین انجینیر تھے نہ صرف تارتھ کے

كا كوأى فائدة نهيل - المر واقعى كوثى ایسے ممہروں کو یہ سمجھیں کہ اس انستی تہوشن کے ساتھ رھیں جاھے وہ کیوں نه سرکازی پارالی کے هوں صحبے اس سے بحث نہیں لیکن اگر واقعی ان کو کوئی دلچسچی ها اور ولا انهائے کو روکنا چاهتے هیں تو وہ قابل مهارک باد هين - ميڌم - يه مين کيون کہتا ہوں - اس والت ممارے دیش میں ایک عجیب حالت ہوگئی ہے یعلی جناب نے ادیکھا ہوگا کہ سہریم كور كا أيك فيصلة آيا أور ولا فيصله بیاں تک تھا کہ اس میں ہوے سے ہوے آدمی کو انہوں نے ہشفا نہیں -ولا كهته هين كه يهان نههوتزم هوتا هي مهلافائيڌي هوتي هے، کريپشن هوتي هے -آپ نے دیکھا ھی ھوکا کہ کل سارے اخباروں میں آیا۔ اور میں نے چیرمین ماهب کی توجه بھی اس طرف مهذول کرائی تھی - همارے اکبر علی خان ماحب اور دوسرے جو نیک اور قابل ترین ممبر بیهای هیں وہ اس ہات کا خیال کریدگے که آب اس طرح سے چیف ملستر پرایمانیاں کرتے آھیں لور ان پر . . .

उपसभापति : श्राप बिल पर बोलिये ।

شرى مبد الغلى: اس انستى تہوشن کو جو یہ شان سے آگے بوھانا جاهتے میں ترقی دینا جاهتے هیں مين أن س صرف يه عرض كرنا جاهتا ھوں کہ ایسے منبو*س اس م*یں نہ

بلکه سارے قایش کے اور انہوں نے خودکھی کی - ان کے ساتھ استیم سرکار نے پولیس افسران نے، استیت سرکار کے جھٹ ماسالر نے تہایت نازيبا أور خلاف انسانيت سلوك كيا تها - مهن چاهونکا که جهان هماري سركار اس تهكلهكل ايجوكهشي كو ساللس کی ریسرچ کو ترقی دینا چاهتی د وه قابل مبارک باد د لیکن اس باس کا فرور شمال کوے کہ جو نيوراتزم جو فيورتزم هر جكه آرها هے ولا كم از كم اس شان دار انسالي تهوشن میں نہ ہے ۔ میں خرش ہوا اور هنسا بھی جب مجه سے پہلے آنریمل مسور نے یہ کہا که کنچه پارلیمات کے مسہو اس میں ہونے چاھائیں -مهدّم - مهن هلستا هون که یهان سے ایک ڈیلی گیشن باہر بہیجا جا رها هے اور س مهن همارے «اوس کے ایک سبر صاحب کا بھی نام ھے -میں نے مس مہینے میں کبھی یہاں ان کو کوئی تعریر کرتے نہیں سناہ کوئی سوال کرتے تبہی سنا نه ان کا نیاز حاصل هوا شهروانی صاحب کا - اکرچه اس انستی تیوشن کے ساتھ تعلق ایسے لوگوں کا هی هے ایسے پارلهمنت کے ممبر صاحبان کا تعلق جوزنا مے جو كو أس مضدون س كوئى دليجسهى نہیں ہے تو اس سے البتہ ان کی آشارہ بلتی ہے ان کا اثر بوهتا مے لیکن اس

[شربي عهدالغني]

جائیں جو بجائے نہک نامی حاضل کرنے کے سہریم کورت کا سرائینکیت حاصل کریں که میلانائیڈی ہے، کرپشن ہے ۔ میں یہ کیوں کہتا ہوں . . .

SHRI P. N. SAPRU: On a point of order. There must be some connection between the subject of discussion and the Bill.

THE DEPUTY CHAIRMAN: That is what I told him. He should speak on the Bill. Mr. Ghani, if you have exhausted your points, then you can finish your speech.

شری هدد الغلی: مهدم - میں نے کوئی خطرناک بات نہیں کی - میں نے تو اتفا کہا که پارلیمندی کے ممبر صاحبان کو سردار سنتوکو سلکھ نے کہا که لیفا چاهیئے اور میں نے کہا که ایسے آنریبل ممبران کو نہیں لیفا چاهیئے جن کو اس مقمون سے چاهیئے جن کو اس مقمون سے داچسپی نہیں ہے -

श्री प्रकाश नारायण सप्रू: ग्रापको ले लिया जायगा ।

شری عدد الغلی: اجی - مجه کو کون لے لے کا - که ماں الل سلکھ نمبودار مرکها کون هوکا ? اس نے کہا گلاب سلکھ - گلاب سلکھ مر جائے تو اس نے کہا شہام سلکھ - دام سلکھ مر جائے تو اس نے کہا شہام سلکھ - شیام سلکھ مر جائے تو اس نے کہا بیتا چاہے سب مر جائیں تمہارا نمبر نہیں آئیکا - یہ تو میں جانتا ہوں اور اس کا کوئی گله میں مجھ نہیں ہے -

بهرخال میں یہ عرض کر رہا تھا کہ یہ شک ہمایوں کبھر صاحب ممبدوں کو لیں لھکن ایسے ممبدوں کو لیں لھکن ایسے ممبدوں ورقکت نے کوئی ورقکت نے لے آئیں تاکہ مصیبت نه یو جائے – بہر حال میں یہ عرض کر رہا تھا کہ سائنس میں ہمارے دیش میں ایسا نہیں ہو سکتا جیسا انہوں نے کہا سردار سنتوکھ سنگھ نے – آج بھی مستر بھابھا جو ہیں انہوں نے دنیا میں نام بھدا کیا ہے –

एक माननीय सबस्म : किन्होंने ?

شرق عبد الغلق: بها بها نے جو همارے سائقس کی ریسرچ کرنے والے هیں – انہوں نے دنیا میں نام پیدا کیا – آج بھی کتابے هیدا هو سکتے هیں یہاں ودیارتھی جو همارے دیعی کے نام کو اونچا کریں –

مهذم = مهن پهر ايک بار هنايون کبير ساهب کو اس بل کے لانے پر مهارکباد ديدا هون -

ं [ओ श्रम्बुल गनी (पंजाब) : मैडम डिप्टी चेयरमैन, हजार वर्ष हुए कि अपना देश इस साइंस की दुनिया में भी सबसे आगे था। आपको याद होगा कि भगवान कृष्ण और वीर अर्जुन दोनो साथ-साथ जा रहे थे तो सामने से एक नंगे पांव सिपाही आ रहा था। तो भगवान कृष्ण ने अर्जुन से कहा कि यह बड़ा जबर्दस्त है और इसके पास ऐसे शस्त्र है जो हमारी तमाम फौज को तबाह बरबाद कर देंगे। वीर अर्जुन बड़े हैरान हुए और कहा कि क्या किया जाये। इस

^{†[]} Hindi transliteration.

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पर उन्होंने कहा, कि हम साध्यों के भेष में हैं भौर इससे भिक्षा मागते है जब वह मान जायेगा तो इसका सिर मागेंगे। फिर मजंन ने मागे कहा कि वह शस्त्र नया है तो उन्होंने कहा, मैं इस का तज्रवा कराये देता हं। उस सिपाही ने बतलाया कि जब वह चीज छटेगी तब इससे दरस्त का हर एक पत्ता छलनी हो जायेगा। तब भगवान **ने कहा कि छोडो, श्रौ**र उन्होंने एक दरस्त का क्ला अपने पांव के नीचे रख लिया और तीर उतर ग्राया । इस पर ग्रर्जन को ग्रहसास हुआ कि यह कोई खतरनाक आदमी है। वह क्या चीज थी. एटमबम था या तीर था, मैं नहीं जानता ग्रौर न मैं इस बात पर पड़ता हं लेकिन इस दूनिया मे श्रौर इस साइस की दुनिया में भारत आगे निकल मया था जो हम सबके लिये गौरव की बात है ।

श्राज मुझे खुशी है कि एक नौजवान मिनिस्टर इस नाजक मसले में दिलचस्पी ले रहे है। यह साइंस की द्रनिया है, इंडस्ट्री के लिये रिसर्च हो, मुल्क की तरक्की के लिये रिसर्च हो, कोशिशे हों, यह अच्छी बात है। मै महसूस करता हं कि ग्रगर मैं मिनिस्टर साहब को मुबारकबाद द तो इसमें कोई गलती नही होगी कि वह ग्रपने देश को फिर से एक बार उभरता देखना चाहते हैं। जो तालिब-इल्म है ग्रौर जिनका दिमाग इस तरह से चलता है उनको ज्यादा से ज्यादा मौका टैक्नीकल कालेजों में पढ़ने के लिये दिया जाना चाहिये भीर इस काम के लिये जितनी रकम हो बह इस में लगाई जानी चाहिये। लेकिन हम यह नही लगा पा रहे है। इसका कारण यह है कि हम दिखाने के लिये और दुनिया की **बहलाने के** लिये इन[']दो चीजो पर ग्रपना रुपया ज्यादा बरबाद कर रहे है।

दो सवाल बहुत ग्रहम यहा उठे। एक जो भागव जी ने उठाया कि जो डिजर्ब करते हैं उनको मौका नही मिलता, उनके साथ ग्रन्याय होता है चाहे उनके नम्बर कितने

ही ज्यादा क्यों न हों। श्रीर दूसरा हमारे देश के काबिले-फख, बजुर्ग सप्र ने उठाया कि जितनी ऐसी जमायतें है जैसे पञ्लिक सर्विस कमीशन है मुख्तलिफ स्टेटों मे तो कई स्टेटें ऐसी हैं कि जहा जो कद्र के काबिल हैं, जिनकी कद्र की जानी चाहिये, जो डिजर्व करते हैं उनका हक छीन लिया जाता है। मैडम, मैं सप्र माहब के साथ इलफाक रखता हं। कई स्टेटों में ऐसी हालत है कि कभी पब्लिक सर्विस कमीश्रन को पचास परसेन्ट का कहते हैं कि तुम कोटा भेज दो श्रोर उसमे भी तुम इतना ज्यादा भेजो जिसमें हम ग्रपना इन्तखाब कर सकें। कभी वह पच्चीस परसेन्ट का कर दिया जाता है, कभी कुछ कर दिया जाता है। लेकिन खैर यह हकूमत के अपनी जगह के कारनाम है, वह करते रहें। मझे एक दुःख है कि इस तरह के जो हमारे बेहतरीन या काबिले फह्म लोग है उनमें से कुछ बड़े फेमस ब्रादिमयो ने खुदकशी कर ली, हाराकीरी कर ली। जिनमें एक मिस्टर किलयर थे ग्रौर एक एंग्लो-इंडियन थे जिनका नाम मेरे दिमान से निकल गया है। वह बड़े ही काबिल साइंटिस्ट थे ग्रौर उन्होने हाराकीरी की क्योंकि हम लोग उनकी कद्र नहीं कर पाये जितना वह डिजोर्व करते है, हमारा एप्रीसिएशन इसके बजाय हमारा सल्क उनसे इतना बुरा है कि जिससे बजाय उसके काबिलियत का हमे फायदा पहचता उन्होंने खुदकशी कर ली । इसलिये जैसा सबने कहा, यहां काबिल त्र्यादिमयों को इतना दो कि वह बाहर के मुल्को की तरफ न देखें श्रीर उनके दिमाग से हम भी फायदा उठायें। मिस्टर किलयर बेहतरीन इंजीनियर थे न सिर्फ नार्थ के, बल्कि सारे देश के भौर उन्होने खुदकशी की । उनके साथ स्टेट सरकार ने, पुलिस अफसरान ने, स्टेट सरकार के चीफ मिनिस्टर ने निहायत नाजेबा श्रौर खिलाफे इंसानियत सलूक किया था । मैं चाहूंगा कि जहा हमारी सरकार इस टैक्नीकल एजुकेशन को, साइंस की रिसर्च को तरक्की

[श्री भ्रब्दुल ग़नी]

वेना चाहती है वह काबिले मुबारकबाद है लेकिन इस बात का जरूर ख्याल करे कि जो नेपोटिज्म, जो फेवरीटिज्म हर जगह श्रा रहा है वह कम से कम इस शानदार इंस्टीट्यूशन में न आये। मैं खुश हम्रा और हंसा भी जब मुझसे पहले ग्रानरेबिल मेम्बर ने यह कहा कि कुछ पालियामेन्ट के मेम्बर इसमें होने चाहियें। मैडम, मैं हंसता हं कि यहां से एक डलीगेशन बाहर भेजा **वा** रहा है भ्रीर उसमें हमारे हाउस के एक मैम्बर साहब का भी नाम है। मैंने दस महीने में कभी यहां उनको कोई तकरीर करते नहीं सूना, कोई सवाल करते नहीं सूना, न उनका न्याज हासिल हुग्रा, शेरवानी साहब का। ग्रगरचे इस इंस्टीट्युशन के साथ ताल्लुक ऐसे लोगों का ही है, ऐसे पालियामेन्ट के मेम्बर साहिबान का ताल्लुक जोड़ना है जिनको इस मजमन से कोई दिलचस्पी नहीं है। तो इससे अलबत्ता उनकी शान बनती है, उनका ग्रसर बढ़ता है लेकिन इसका कोई फायदा नहीं। ग्रगर वाकई कोई ऐसे मेम्बरों को यह समझें कि इस इंस्टीट्यूशन के साथ रहें चाहे वह क्यों न सरकारी पार्टी के हों, मुझे इससे बहस नहीं। लेकिन अगर वाकई उनको कोई दिलचस्पी है ग्रौर वह ग्रन्याय को रोकना चाहते हैं तो वह काबिले मुबारकबाद है। मैडम यह मैं क्यों कहता हूं ? इस वक्त हमारे देश में एक अजीब हालत हो गई है यानी जनाब ने देखा होगा कि सुप्रीम कोर्ट का एक फैसला आया और वह फैसला यहां तक था कि उसमें बड़े से बड़े ग्रादमी को उन्होंने बख्शा नहीं । वह कहते हैं कि यहां नेपोटिज्म होता है, मेलाफाइडी होती है, करप्शन होती है। स्रापने देखा ही होगा कि कल सारे ग्रखवारों में ग्राया श्रौर मैंने चेयरमैन साहब की तवज्जों भी इस तरफ मञ्जल कराई थी। हमारे श्रकबर भ्रली यां साहब ग्रौर दूसरे जो नेक ग्रौर काबिलेतरीन मेम्बर बैठे हैं वह इ स बात का स्थाल करेंगे कि श्राज इस तरह से चीफ मिनिस्टर बेईमाानियां करते हैं श्रौर उन पर . . .

उपसभापति : श्राप बिल पर बोलिये ।

श्री श्रब्दुल गनी: इस इंस्टीट्यृशन को जो यह शान से श्रागे बढ़ाना चाहते हैं, तरक्की देना चाहते हैं में उन से सिर्फ यह श्रर्ज करना चाहता हूं कि ऐसे मेम्बर्स उसमें न जायं जो बजाय नेकनामी हासिल करने के सुश्रीम कोर्ट का सार्टीफिकेट हासिल करे कि मेलाफाइडी है, करण्शन है। मैं यह क्यों कहता हूं ...

Shri P. N. SAPRU: On a point of order. There must be some connection between the subject of discussion and the Bill.

THE DEPUTY CHAIRMAN: That is what I told him. He should speak on the Bill. Mr. Ghani, if you have exhausted your points, then you can finish your speech.

श्री श्रब्दुल गनी: मैंडम, मैंने कोई खतरनाक बात नहीं की। मैं ने तो इतना का कि पालियामेंट के मेम्बर साहिबान को सरदार सन्तोख सिंह ने कहा कि लेना चाहिये और मैं ने कहा कि ऐसे श्रानरेबिल मेम्बरान को नहीं लेना चाहिये जिनको इस मजमून से दिलचस्पी नहीं है।

श्री प्रकाश नारायन सप्नू : ग्रापको ले लिया जायगा ।

श्री ग्रब्दुल गनी: श्रजी मुझ को कौन ले लेगा। कि मां लाल सिंह नम्बरदार मर गया, कौन होगा? उसने कता गुलाब सिंह। गुलाब सिंह मर जाय तो उसने कता राम सिंह। राम सिंह मर जाय तो उसने कता श्याम सिंह। श्याम सिंह मर जाये, तो उसने कहा, बेटा चाहे सब मर जायें तुम्हारा नम्बर नहीं श्रायेगा। यह तो में जानता हूं श्रीर इसका कोई गिला भी मुझे नहीं है।

बहरताल ैयत ग्रर्ज कर रा था कि बेशक हमायुंन कविर साहब मेम्बरों को लें नेकिन ऐसे मेम्बरों को लें जो सप्रीम कोर्ट से कोई विडिक्ट न ले आयें ताकि मसीबत न पड़ जाय । बहरहाल, मैं यह ग्रर्ज कर रहा था कि साइंस में हमारे देश में ऐसा नही हो सकता जैसा कि उन्होंने कहा, सरदार सन्तोखसिंह वे। ग्राज भी मिस्टर भाभा जो हैं उन्होंने दुनिया में नाम पैदा किया है।

एक माननीय सदस्य . किन्होंने ?

थी प्रव्दल गती : भाभा ने जो हमारे साइंस की रिसर्च करने वाले हैं। उन्होंने हृनिया में नाम पैदा किया। ग्राज भी कितने पैदा हो सकते हैं यहां विद्यार्थी जो हमारे देश के नाम को ऊंचा करें।

मडम, में फिर एक बार हमायुंन किंबर बा॰ब को इस बिल के लाने पर मुबारकबाद देता हं।]

هری اے - ایم - طارق (جموں اور کشمهر): یه جو هماری سردار سنتوکه سلکه هیں انہوں نے بھی نام پیدا کیا ہے دنیا میں۔

† श्रि ए० एम० तारिक (जम्म श्रौर काश्मीर) . यह जो हमारे सरदार सन्तोखसिंह 🖁 इन्होंने भी नाम पैदा किया है दुनिया में ।]

SHRI ARJUN ARORA: Madam, this is a very good Bill in a way but it must be realised that in this country we have four Institutes of Technology and this Bill will give us the fifth only de jure and not de facto. What I mean is that the scope of technical education in the country will not be enlarged by this august House passing this Bill. Only one Institute, it appears Members from Delhi like very much, will get a higher status. I have no objection another Institute being given a higher

status and therefore I support the Bill but I want the Government, this hon. House and the country to know that the mere passage of this Bill in this House and the other will not enlarge the scope and the facilities for technical education in the country. The need in the country today is more and more technical education, bigger bias to technical education. The Minister Scientific Research and Cultural Affairs, who, I am glad to say, now also become the Minister Education—and I take this opportunity to congratulate him on this acquisition-said the other day that though thousands appear in the competitive examinations for these Technical Institutes, only hundreds are admitted and he has no intention of increasing the seats in these Institutes. While there may be a limitation of the number of seats in a particular Institute, there should be in this country no limitation of technical education because the country has just entered a new age of industrialisation and find today that turning out more and more arts graduates of a low order to become mere clerks in the Secretariat is no good. The whole system of education in the country has to be reoriented and given a technical bias.

THE DEPUTY CHAIRMAN: may continue later. The House stands adjourned till 2.30 P.M.

> The House then adjourned for lunch at one of the clock.

The House reassembled after lunch at half-past two of the clock, the DEPUTY CHAIRMAN in the Chair.

THE DEPUTY CHAIRMAN: Yes, Shri Arjun Arora, you may continue your speech. But I find there is no Minister present.

SHRI ARJUN ARORA: Then, shall we meet after ten minutes, Madam?

^{†[]} Hindi transliteration.

THE DEPUTY CHAIRMAN: Yes, there is no other alternative except to meet after ten minutes. The House stands adjourned for ten minutes.

The House then adjourned till forty minutes past two of the clock.

The House reassembled at forty minutes past two of the clock, The DEPUTY CHAIRMAN in the Chair.

The DEPUTY CHAIRMAN: I am sorry the Minister was not here at 2.30 p.m. This has happened a second time this session. Last time the Minister was not here and he apologised and said he was busy in the other House. I do say to the Treasury Benches—and you can convey this to all your colleagues—that this House has its own dignity and prestige and what is due to it must be given by the Treasury Benches, by each one sitting on the Treasury Benches.

THE MINISTER OF SCIENTIFIC RESEARCH AND CULTURAL AFF-AIRS (SHRI HUMAYUN KABIR): I am very sorry, Madam, and I apologise to the House for the unintentional inconvenience caused. The fact is, there was a slight difference between my watch and the clock here. I came exactly at 2:30 by my watch but I was late by some three minutes.

THE DEPUTY CHAIRMAN: I do think the clock in this House should be followed.

SHRI HUMAYUN KABIR: I agree, Madam, and I am very sorry. I am sure this will not happen again.

SHRI BHUPESH GUPTA (West Bengal): Madam, I am very sorry that the hon. Minister of Scientific Research should have a watch which does not give the right time.

THE DEPUTY CHAIRMAN: Anyway, it will be set right now, we shall have to wait and watch.

SHRI BHUPESH GUPTA: I would wish to present him with a watch which gives him the right time.

An Hon. MEMBER: From Russia?

SHRI BHUPESH GUPTA: If he pleads inability to produce one here.

SHRI ARJUN ARORA: Madam I was stressing the point that the passage of this Bill will raise the status of an engineering college, but would not give the country greater facilities for technical education. appears to be some sort of complacency in this Ministry as far as the seats in the engineering colleges are concerned. The other day the hon. that Minister declared he not thinking of increasing the number of seats in the techniinstitutions. I feel, Madam, that this is due to a lack of foresight and the Ministry does not appear to have a full idea of the pace of industrialisation that is taking place in the country and the need for technical men in the country. It will be proper for the Ministry to conduct survey of the needs for engineers and technical people for meeting the requirements and demands of Fourth Plan period, because if Ministry rises late and begins to educate and train the engineers in the Fourth Plan then during the Fourth Plan-it takes five years get an engineering degree-the result would be that the requirements of the Fourth Plan would not be met. Even today, there is very much demand for engineers, particularly for engineers trained in these Institutes. For that, of course, the credit must be given to the Government and to the hon Minister for industrialists with foresight contact the students in the final year of the college, especially in technical institutes like the one Kharagpur. So that should give the Minister some idea of the need

enlarging the scope of technical education in the country. These Institutes which have come into being—thanks to the Herculean efforts of this Ministry and thanks also to the foreign aid which they have been able to get—are really very useful institutes. But a very interesting fact about these Institutes is that one is built with British aid, another with American aid and the third Soviet aid. It is perfectly all right for us, non-aligned people, to get aid without strings from wherever it is available. But once the aid is received, every effort should be made to make the institutes, these technical institutes, Indian, and they should be developed in a manner which will conform to our requirements. I am sorry to find, Madam, that this is not being done. Each Institute, which has with the been developed help of foreign aid is likely to become an empire of that country in India. That tendency must be uprooted. I am conscious of this tendency because one of the Institutes is situated Kanpur, a place with which I keep a live contact. This Institute is financed by American help and I have publicly thanked the Americans for the help that they have given to this Ins-I do so again now, for this should also think of concidering the technical institute at Kanpur is developing into a very useful institute. But what I find is that in the matter of recruitment of teachers, this Institute recognises only American degrees. Though it is not written in black and American-trained white that $onl_{\mathbf{v}}$ teachers will be admitted, this is a hard fact which cannot be ignored. Our young men who have education or German education country education from any other except America, who have if I may say, an un-American education, they are at a disadvantage in the matter of these appointments.

SHRI SANTOSH KUMAR BASU (West Bengal): Un-American or non-American?

Shri ARJUN ARORA: The Americans use the term "un-American".

SHRI SANTOSH KUMAR BASU: But in a different sense.

SHRI ARJUN ARORA: So this sort of tendency to build up each Institute into an empire of the country which has given financial and technical aid for the establishing of that Institute must be checked and uprooted. As I submitted, Madam, there is nothing in black and white but if the Minister goes through the qualifications the Indians who have been taken on the staff of the I.I.T., Kanpur, I am sure he will find that those with American education are the dominant people. That tendency is very dangerous and it is not likely to help the development of healthy trends in the country. With these words, Madam, I support the Bill.

SHRI HUMAYUN KABIR. Madam Deputy Chairman, I am thankful the House for the generous support extend to this Bill. The Bill non-controversial in nature and I am sure the whole House is united saying that facilities for technical education in this country should be expanded and improved. With reference to the various points raised, I would like to say that while this Bill is a very limited Bill-its major purpose is to see that the Delhi College Technology is of Engineering and elevated to the rank of a higher Institute of Technology, and we add a fifth Institute to the four that already existing—the debate has actually ranged over the entire field of technical education. Perhaps it was inevitable in the circumstances. would therefore, take this opportunity, Madam, to reply to some of the points of a general nature which have been raised.

My hon. friend, Shri Govindan Nair, made a very discursive speech and while his major purpose was to say that the entire attitude towards technical education should change, he [Shri Humayun Kabir.]

did not really indicate what exactly this change should be. Today there is great importance and emphasis placed on technical education and I am sure Shri Govindan Nair also desires that that emphasis should continue and I am sure he does not wish that that attitude should be changed by not giving it the same attention as before.

Then, he talked about complacency in this Ministry. I may assure him that there is no complacency. This point was also raised by the hon. Member who spoke just now. I may tell hon. Members that there is no sense of complacency, but there the sense of realism which makes us survey the position and to devise measures so that the development of technical education in the country may conformity with the requirements of the country, that it does not outstrip it too much and there is no problem of the unemployment technical personnel. I have always held that the supply of technical personnel may be slightly in excess, may_ be ten per cent. or fifteen per cent. or at most twenty per in excess of the country's requirethat excess ments because always be absorbed by the deveeconomy of a fastly growing country like ours but if that excess is more than ten or fifteen twenty per cent., there is a real danger that there may be unemployment of our technical personnel and would be a real tragedy for the country for more reasons than one, firstly, the amount spent for training technical person is a considerable amount and it is very largely contributed by the community and the State not by the individual who undergoes that training and secondly, it may lead to a sense of frustration as has been unfortunately the case in respect of higher education in the humanities and in the arts.

My hon. friend, Shri Nair, admitted that the proportion of money allot-

ted for technical education has steadily increasing over the last three Plans. In the First Plan it was eleven per cent and it has gone up to 25 per cent, in the Third Plan. I de not know what change he wants there. Does he want it to be reduced or expanded still faster? I am sure nobody in this House would dispute the claims of elementary education. secondary education and university education in pure science and humanities. I am sure, Madam, nolody in this House desires that more than 25 per cent. of the total Budget should be allotted only for higher technical Shri Nair also talked education. about children's education women's education which were hardly relevant to the discussion of this Bill. Shri Nair wanted improvement in the quality of technical training but at the same time talked of reduction in the duration of the course and the use of factories. Now, Madam, if these steps are taken. I am sure it would lead to a deterioration in standards which I am sure nobody in this House would desire.

While Shri Nair this expansion, at the same time he raised the point that there were some engineers still unemployed. I do not think it is true to say that a large number of engineers are unemployed and what my hon, friend, Shri Arjun Arora said just now,-that the dents are approached in certain cases for employment even before have finished their courses-indicates that there is no such danger at the moment. But it is certainly true that when a young person takes the degree, sometimes for three months or six months he may not be able to find We once ensuitable employment. quired into the registration of degree holders in engineering in the Employment Exchanges and we found that the majority of them were people who had taken their degree a month ago and others were two people who had already got employment but were looking for better em-

My friend also referred to the unemployment of geologists and geophysicists which is hardly relevant to this issue. This matter was discussed by me in a question before Parliament and I wish to point out that only a very small proportion of people are unemployed. Out of 2,558 post-graduates in geo-science, only fourteen were reported to be unemployed and about 150 were reported to be working in fields not connected with geo-science. This, I am sure, is not a very dismal picture. The great expansion which is taking place in the G.S.I. will be able to take care of all geologists and geo-scientists who are competent but we must also remember that there is the question of personal preference, there is the question of suitability. Therefore, it is not that everyone who takes a degree can necessarily be absorbed in the G.S.I.

My friend, Mr. Nair, also referred to the need of improvement at the diploma level, at the degree level and at the post-graduate level. All these measures are being taken. At the diploma level, very recently, the course has been reoriented in order to give it a more practical bias. As a result of this, I am sure that the diplomaholders will be able to meet the requirements of industry more effectively and more expeditiously. At the degree level also, we have raised the standards and the five-year integrated course will, I am sure, lead to an improvement in the standards. We have, therefore, resisted the demand for reducing the duration of the course. At the post-graduate level, higher institutions are catering that and another 30 centres for postgraduate studies and research in engineering and technology have been established in the country during the last five to six years.

I think, therefore, Madam, the points raised by Mr. Nair may have general application but they were not relevant to the Bill and I do not think that they show any picture which need disturb us. I would like to submit to the House, the progress of

technical education both from the point of view of quantitative expansion and qualitative improvement is proceeding along right lines. Of course, there is always room for further improvement and that is why these various bodies are set up and one of the purposes of establishing these higher institutes of technology is to improve quality.

My friend, Shri Bhargava, raised two or three important points. first point was the question of good teachers. I entirely agree with him that the quality of teachers is fundamental to any system of education. You may have any kind of syllabus and you may have any kind of equipment but if the teachers are not both able and dedicated, we can never get the best results. We have taken certain measures in order to attract better teachers and this House is aware that the pay scales have been considerably improved. I think my hon. friend, Mr. Sapru, mentioned that the scales in the Institutes of Technology should be improved and that the teachers should be given higher salaries. We have done it for all teachers not only in the Institute of Technology but in respect of all technological institutions throughout the country. I think I can say with some confidence that the scales are comparable to the highest scales which obtain in the Government of India. A young man can start at 410 rupees in a technical institution and if he is good enough, he can become the Director of one of the Institutes going up to Rs. 3,000. I think, Madam, starting at Rs. 410 and with various breaks going up to Rs. 2.500 or Rs. 3,000 is not an inadequate scale so far as India is cerned.

We have also taken steps for improving the quality of teachers by providing special teacher training programmes. Six hundred teachers have been given special training in the country and outside, viz., in the United Kingdom, the United States of America, the U.S.S.R. and in West

[Shri Humayun Kabir.] Germany in the course of the last five or six years. At the moment about 200 teachers are under training in the country itself. So, we are trying every possible method improve the quality of teachers by providing better training facilties to teachers and attracting better type of students to post-graduate courses in engineering and technology by offering cent per cent, scholarship to any student accepted in the post-graduate classes in an engineering technological institution. He is given full scholarship which covers all his expenses. This, I think, will go some way in improving the shortage of teachers.

Then my friend, Mr. Bhargava, made special reference to the selections at Kanpur and he had two complaints to make. One was that the list of those, who were selected, more or less known and the second was that some people, who had done well in B.Sc. or School Board examination or elsewhere, were not called for interview. My hon, friend probably knows that the selection for all the four Institutes and for the Institute is not based on the results of any examination conducted by anybody else but is based on a competitive examination held on an All-India basis and conducted by these Institutes jointly. There is no possibility in this competitive examination any favouritism or partiality because the students remain anonymous. examiners are anonymous and when the script comes, nobody knows from which student the script has come and it is only when the students are qualified that by referring back their names are discovered and they are called for interview.

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18,000 people sat for the examination; of them 2,807 qualified in this written examination and they were called for interview. Now when you have 1,590 places which have to be filled and 2,800 are called for interview, anybody can make an intelligent

guess as to who will be because it is also a fact that selections are made on the basis of competitive examination. interview has only very limited purpose. The purpose of the interview is to select the courses which they may be allotted and the institutions to which they may go. And only if at the interview somebody grossly inadequate, or only if there are any defects or deficiencies which make one unsuitable for higher education, he will be thrown out but I can say that no such cases occurred. The admissions have been strictly according to merit basis of the competitive examination. Therefore since the results are published, from the fact that these perand sons were interviewed their merit position was known more or less, anybody can broadly say these are the people who are going to be selected. There is nothing very much surprising if they had made an intelligent guess. They knew that they are right on the top and they are walking in on the basis of merit, in the because they have qualified competitive examination and have come very high up. This also poses of the objection that somebody who had got good marks in the Board Examination or the University Examination was not called. They may get as high marks as they like in any other examination but if they have not qualified in this particular competitive examination, they would not be called. If we went by the results of the Board Examination, they differed from State to State and even within a State thev differed from university to university. That is why we have devised this common competitive examination. So I can say with confidence that the admissions have been strictly on the basis of merit and merit alone.

Shri M. P. BHARGAVA (Uttar Pradesh): On a point of information, may I know the number of people who were to be selected at Kanpur and the number of people called for interview?

SHRI HUMAYUN KABIR: I am givalso. Five that information were called for hundred students interview at Kanpur of whom 466 actually appeared at the interview and out of the 466, 258 were offered admission at the Kanpur Institute. Some of them were offered admission at other Institutes as well. Two hundred and eight candidates accepted and joined the Institute at Kanpur and sixteen of them left afterwards so that 192 are still at the Institute. And as I said, the examination is held on a common basis. It was not conducted by the Kanpur Institute this year, if I remember right. It conducted by the Kharagpur Institute two years ago and then the year by the Bombay Institute. This year it was either the Bombay Institute or the Madras Institute which conducted the examination. Kanpur's turn will come later so that Kanpur only interviewing candidates who had qualified themselves on the results of an examination conducted by another Institute. I hope will satisfy my hon. friend and I can assure him that it is our endeavour to see that in these Institutes, merit and merit alone is the governing consideration, that candidates are selected purely on merit. These were, I think, the two major points which he made.

Then my hon, friend Mr. Chettiar raised two or three points. He talked graduates and about the number of diploma-holders. I have also submitted to this House that we ought to expand the facilities at the diploma level at a faster rate than at degree level. We have today India a disproportionate number degree-holders compared to diplomaholders. To some extent this been rectified in the last five years but only slightly. Even today, the number of diploma-holders is only about twice the number of degreeholders whereas the proportion should really be about four to one.

Then my friend Mr. Chettiar referred to the full utilisation of equip-

ment and suggested that there may be shifts in certain colleges. position today in many of the institutions is that without having shifts, institutions are practically working in the manner of a shift. Admissions greatly. been expanded many cases the admissions in the last two years have been increased 50 to 100 per cent. Institutions which were admitting 120 students are today admitting 180 to 240 and in some cases they are admitting as many as 300 and there are one two institutions where the admissions are 350. Now, obviously this has put a great strain on the laboratories and workshops. These laboratories and workshops are now working more than ten hours a day and we certainly cannot work them longer without a very much greater supply teachers.

Our greatest difficulty is in the shortage of teachers. Even today, in spite of our best efforts the shortage of teachers has not been fully met and that is why we cannot expand any further or allow any more admissions. I agree with my friend Mr. Arora when he said that there should be expansion of technical education but the expansion also be related to our needs. It is because the estimated requirements have been met that we are going somewhat slow. Even then we suspending development. not Third Plan target for admissions in 20.000 1966 was for engineering courses at the degree level. This year we have almost reached that target. We gave approval for over admissions in the different institutions in this very year and we are hoping to expand by another two to thousand in the course of the two years. I would not like it expand at a faster rate than especially when the expansion at the diploma level has not kept pace. We admitted this year over 30,000 Polytechnics with an admission of 20,000 at the degree level but admissions at the diploma level ought to have been at least 40,000, if not more

[Shri Humayun Kabir.]

Mr. Chettiar also referred to the equipment shortage and wanted that this should be made good as quickly as possible. It is our endeavour to do so. Already about 70 per cent. of the equipment for polytechnics can be manufactured in the country and are available here. In the case of the engineering colleges, about 50 per cent. can be available within country but there are certain types of equipment in electronics, in electrical engineering, in heat engineering and in ancillary subjects, which have to be imported from abroad because of shortage of foreign exchange there have been difficulties in the past. Very recently we considered this matter and a conference scientists and educationists, which was held in August, has made a recommendation that a special quota should be allotted for the import of equipment for scientific and technical institutions. We have estimated that for India as a whole, the requirement of foreign exchange per year for equipment for technical institutions is only about Rs. 2 crores a year. We have now moved that this of Rs. 2 crores should be earmarked and I have every hope that demand will be met. When that done and when we are able to allot to every institution a quota foreign exchange without any strings, without any pre-conditions, the shortage of equipment can be very largely met.

My friend Mr. Khandekar said that there is no planning for employment of technical men and the universities give degrees indiscriminately. Sir, do not think it would be fair to make that sweeping charge against universities. There may occasionally be cases where a person who we think is not fully qualified might get a degree or somebody who we think is fully qualified might not be given a degree. These are matters of differences in judgement and we have to abide by the decision of the universities. Unless we respect the universities, pect their autonomy as well as their authority to give degrees as they like, there is the risk that we will get into more difficulties. Certainly I think the House will agree that the Government or the Ministry—and I respectfully submit also the Parliament—should not enter into this academic field of the giving of degrees. This should be left entirely to the universities.

Regarding Mr. Khandekar's point that there is no planning, I have tried to submit before the House that it is because we are conscious of the planning that we are developing definite controlled rate, neither faster nor slower. We certainly not slower than what the planning Commission had indicated as requirements of the country but do not wish to go very much faster either. I have always tried to go a little beyond what the Planning Commission had asked for. We did so in the Second Plan and we are going to Plan do so in the Third but should not go very much beyond, because that will upset the general pattern of planning in the country.

My hon, friend, Mr. Sapru, ranged over a vast field and he raised also one or two specific questions. first grievance seems to be that this Delhi College of Engineering Technology is being taken outside the Delhi University and is becoming institution which would give degrees in its own right. The reason for that is very simple. The higher technological institutes are developing a life of their own. They are, for all practical purposes, universities and they are not single-faculty universities as my hon. friend seems to fear because, take Kharagpur, take Bombay, Kanpur, take Madras, everywhere there is provision for the teaching of humanities.

In Kharagpur degrees are given in the pure sciences. In all these Institutes, this provision will be made in due course so that they will not be single-faculty universities, but they will be all round institutions. Because they are not attached to any other institution, because they have

their own autonomy, they will be free to develop in a manner which would not be possible if they had under the control of some body other than their own. This is the major reason why these Institutes are being developed as autonomous institutions. I may also add that the collaboration and assistance we have received from friendly countries has partly conditional on this fact that each institution has the independence to develop in its own manner and develop its own standards.

My hon. friend, Shri Arora, talked of empires. I can assure him that there is no question of empires here. It is only a question of academic freedom. While we are grateful to all the countries which have given us aid, we have also made it clear that the development of these institutions will be according to the principles laid down by this country. We did that in the case of the Soviet institution. They had a different idea of a higher Institute of Technology. They originally suggested that it should be a single-faculty institute, not singlefaculty in the sense which my friend, Shri Sapru, mentioned, but singlefaculty in the sense that they have in their country a higher institute for automobile engineering, they have a higher institute for chemical engineering, they have a higher institute for aeronautical engineering. They had at one stage suggested that we might also specialise in that very narrow way, but we did not agree. We persuaded them to see that our pattern of broad technical education, covering all the disciplines of technology and some of the pure sciences, may be a better pattern.

And I was very happy to find, when I was in Moscow last time, about two and a half months ago, that some of the Soviet teachers, who have been here and who are distinished scientists and distinguished demicians, have seen the advants of our system. Now, there is ggestion that in the Soviet Union they may have one or two in-

stitutions which will be more or less like the institution which is loping in Bombay. I am sure the same thing will apply to Kanpur. My hon. friend, Shri Arora, said that it is being developed according to the American pattern. I have discussed with some of the American teachers who have themselves confessed that by being in Kanpur for a year or a year and a half they have seen new points of view, new projects, new methods which they propose to introduce in their institutions when they go back to America. In all these matters it has always to be a twoway traffic. It is always mutual. If we benefit by American experience, then the American teachers benefit by Indian experience. Therefore, there is not the least chance of any empire building. I will however, look into the question which he has raised, that all the people have American degrees. But I think he forgot some of most important members of the staff. As far as I recollect, the Director has no American degree at all. far as I remember, the Deputy Director, if there is any, has no American degree. In many cases the selections are made not by these American teachers. .

SHRI ARJUN ARORA: The Director and Deputy Director were appointed before the Americans came.

SHRI HUMAYUN KABIR: But in any future appointments, the most important persons will be the Director and the Deputy Director. In according to generally fact, pattern, the chairman of the selection committee for professors senior appointments is the Director, so that he will have a decisive voice. There will also be a few experts from other institutions as well. In these four Institutes are, as my hon. ver**y** friend, Shri Arora, said, a happy experiment. On the soil India four different patterns are being worked out, but these institutions cannot function as purely Soviet or German purely West orpurely institutions. They American

[Shri Humayun Kabir.] been influenced by Indian traditions and Indian experience and the Indian teachers who are participating them. The result may be the evolution of a type of technical training which would be suitable not only for our country but which may also be followed with advantage by countries as well. This, I think, answers both the questions which he

raised.

My hon, friend Shri Sapru, then talked about providing jobs for engineers. I think my hon, friend, Shri Arora, gave an adequate reply to it. There is no question of unemployment among engineers, especially qualified engineers. As far as I can foresee, for at least the next ten or twenty years we can take all the engineers who are being produced. We of course. be expanding facilities for technical education. Industrial development in this country also goes apace.

Then, my friend Shri Sapru, ferred to service in foreign countries. I have told this House repeatedly that the number of Indian scientists who are working abroad is almost infinitesimal, only about two per cent. of those who receive foreign training and come back to India. Two cent. is a very small number. there is a certain circulating number, rotating number, who go for two years, three years or four years and they come back to this country.

We also under various systems. exchange our teachers who go foreign countries as visiting professors. This is entirely to the advantage of this country and undoubtedly it is of advantage to the teaching profession. I do not think that any serious problem has so far arisen with regard to the steps which we are taking to expand facilities here, to improve salary scales and to have better methods of training. Not only that. We have recently taken a step House which I am sure the will

approve. We have taken the decision that anyone with a certain specified qualification and above, who has received training in India or abroad, will be taken into the scientists' pool. There will be no limit to the number in the scientists' pool in future. We started with 100 in 1958. It went up to 500 early this year. Now we have wiped out the limitation number. Anyone with the requisite qualification will be taken into scientists' pool and will be maintained by the State. We have taken a further decision that we shall see to it that within six months, any who is in the scientists' pool is given employment, some kind of permanent or sem-permanent employment in some agency.

SHRI SANTOSH KUMAR BASU: It is very good.

HUMAYUN KABIR: Shri So. these steps will certainly attract large number of people back to the country. I would also like to make it clear that it is to our advantage if a small percentage remains outside because they will bring credit glory to this country. We have men like Prof. Chandrasekhar. many people regard as number one in astro-physics. If he were in India he certainly would not have attained that position. We are not in a position today where we can give him the kind of facilities, where we can give him the kind of equipment, where we can give him funds which are essential for the highest type of research in astro-physics, the subject in which Prof. Chandrasekhar specialised. I give only one example, but there are others also like that. Of course, we want that they come back and we should have continual interflow, whereby our scientists should go abroad for periods. The bulk of our scien' must serve the country. That is, aim and I am sure that that aim be satisfied, especially as conc improve in this country.

Shri Sapru referred in that connection to the jealousy of senior men and wanted that there should be greater co-operation. I am sure everybody in this House will agree with him. But then, if any one is jealous, a statement from me or a statement from my hon. friend, Shri Sapru, is not going to remove that jealousy. Jealousy can only be removed when there is a better scientific climate in this country, when there is a real appraisal of work. Nowadays it very often happens that we have in a certain field a very small number scientists. Because there is a small number, they create a kind of monopolistic position and they cling to that advantage. They want to take advantage of their position. As the scientific world expands and as the number of scientists increases. position will fast disappear. I must also say in fairness to the senior scientists that there are many senior scientists who have given of best to the students. It is not true to say that all senior men are jealous of their juniors. There are perhaps occasionally black sheep which you will find in any community anywhere in the world. But by and large the senior scientists do help and do offer co-operation to junior scientists.

Shri Sapru also referred to the question of more institutions. As I have mentioned, we have expanded at a very rapid rate. From, I think, about 40 institutions or so ten years ago, the number of engineering colleges today is well over 100. The number of polytechnics also, I think, has gone up. It was less than—I forget the exact number—67 or 70. Today it is over 230.

The admissions also have expanded tremendously—as I mentioned last time, from 6,000 to 20,000 in the degree colleges in the last six years, from about 10,000 to over 30,000 at the diploma level in the last six years. We do not want to establish more institutions till we are sure of the equipment position, till we are sure of the position about teachers. These

are the two bottlenecks. We must have teachers. Until we get an adequate number of qualified and dedicated teachers, the expansion may not help but it may become a cause of concern.

He also spoke about Uttar Pradesh, but about that I do not propose to make any remarks because the Delhi Institute is not in Uttar Pradesh. In any case, this Bill has hardly any relevance to the difficulties in which he finds himself in Uttar Pradesh.

My friend, Shri Santokh Singh, wanted that better salaries should be paid to the Delhi Institute. I do not agree. As I have said earlier. want to improve salaries throughout the country, and we have taken certain measures in that direction. I certainly do not want that should be any kind of gross rences in the salary structure of teachers in technical institutions. would also wish that we can extend these better salaries to all teachers, not only teachers in technical institutions but teachers in universities and colleges as well so that the level of higher education in the country can be raised.

Shri Sapru who I think it was wanted that there should be some institutions in the South. There already. The Madras Institute certainly not in the North, and addition, we have established the regional colleges which are being developed with assistance from friendly countries abroad and United Nations. The Warangal College is being developed with help of the United Nations Special Fund. The Suratka College in Mysore is being developed with Canadian assistance. These 15 regional colleges which we have planned, of which we have already established 11, will all be developed with assistance the United Nations Fund to a higher level so that the facilities for higher technical education will be sprea**d** evenly throughout the country. think I may also remind the House [Shri Humayun Kabir]

that in 1958 there were a number of States in India where there was not a single Engineering College. Today there is no State in India where there is not at least one engineering college. Assam and Orissa have each two engineering colleges as against no college at all. Kashmir has also an engineering college and a regional engineering college at that which ought to be developed according to the pattern which I have just mentioned.

Then Mr Sapru talked about Scheduled Caste and Schedule Tribe students I would submit to House that I am not behind anyone in giving every possible facility to Scheduled Caste and Scheduled Tribe students, and we have taken special measures for that They are given a 10 per cent concession in these competitive examinations In other words. whatever marks they get, 10 per of that is added to them before they are equated with the students from other classes, and a fairly large number have got in, though not as many as we would wish What even more encouraging, once get in they are able to hold their own with students from other communities In Kharagpur, a special experiment has been made by giving them a supplementary course result is that some of these Scheduled Caste and Scheduled Tribe students are doing very well indeed

Then Shri Sapru talked about third class graduates

An Hon MEMBER What about backward classes?

Shri HUMAYUN KABIR Backward classes do not get the same privilege In fact, it is very difficult to define backward classes. Once it has been defined in terms of economic competence as seems to be the tendency today, we shall also do something in that direction. But at the moment we are proceeding by what the Constitution has provided, that is

the Scheduled Castes and Scheduled Tribes for whom special privileges are given

Shri Santokh Singh also wanted that 25 per cent of the seats in the Indian Institute of Technology Delhi should be reserved for Delhi students I regret that I cannot accept that In the Indian Institutes there is no reservation for anyone We have reservation in the regional engineering colleges, we have reservation in the local engineering colleges There is in Delhi itself another engineering college where naturally the majority of students are from Delhi I think it will please my hon friend to hear that not only in the Delhi Institute, but in the other Institutes also Delhi supplies a very big proportion of students I was looking at the figures the other day, and if my memory does not fail me, I think both at Kharagpur and Bombay, perhaps the single largest quota outside the State where these two are located was from In fact, Delhi students Delhi getting quite a reasonable and perhaps more than their due share terms of population In any case, there will be no reservation in Indian Institute of Technology for the students of any particular State, because then they would cease to be Indian Institutes of Technology Then it would be Delhi Institute of Technology, Kanpur Institute of Technology, and so on

Shrı Santokh Singh also referred to foreign service I have already disposed of that

Shri Sapru and Shri Santokh Singh wanted that Members of Parliament should be on the Governing Body The Governing Body has already been approved by Parliament because the Bill was passed about two years ago, and I do not think, Sir, we need make any changes now If any hon. Member of Parliament comes as a Member of Parliament it would not be so desirable in these academic institutions, but I shall be most happy if some hon

Then my friend, Mr. Santokh Singh, talked about fundamental research. I was rather disturbed and surprised at his aversion to fundamental research. I think it would be a most unwise policy for any country in the world to give up fundamental search altogether. (Interruption.) If my hon, friend will look up the report of his speech, I have not seen it but my recollection is that he was saying that for the time being we need not pay any attention to fundamental research at all, that we must concentrate on applied research. We should certainly pay attention to applied research. In all the National Laboratories, in what we call the cooperative research laboratories established by industries, in some of the projects in the universities, applied research is being carried on. But it will be a bad day for this country if we neglect fundamental research. In fact, applied research cannot live unless fundamental research is active.

My friend, Mr. Ghani—I am grateful to him for his very kind wordsdid not speak generally about this Bill excepting only referring to some of the glories of ancient India. I hope he will agree with me that what we want today is the glories of modern India. Unless in modren India we can have scientific achievements and scientific developments which can at least compare to some extent to the glories of ancient India, that glory of ancient India becomes our condemnation.

SHRI ARJUN ARORA: He mentioned the glories of Punjab, of Pratap Singh Kairon.

شرى عبدالغنى: نهير جناب -میں نے ڈاکٹر بھابھا کا بھی ذکر کیا تها - کهرون کا هی کیون کهتے هو -

† श्री श्रब्दुल गनी : नहीं जनाब. मैंने डाक्टर म भामा का जिक्र किया था, कैरों काही क्यों कहते हो?]

SHRI HUMAYUN KABIR: In case, I am sure that my friend, Mr. Ghani, will agree that what we want really today is that our younger people should be so trained that can become another Arjuna, another Drona, another Ekalavya and heroes of that type.

شرى عبدالغذى - اسى لئے تو ميں نے آپ کی تعریف کی که آپ بہت اچها بل لائے هيں -

†(श्री श्रब्दल गनी : इसीलिए तो मैने ग्रापकी तारीफ[े]की कि ग्राप बहत **श्रच्छा** बिल लाये हैं।]

HUMAYUN KABIR: SHRI very grateful to you. I have already said that I am very grateful to the hon. Member.

The last speaker was Shri Arora. He came back to one point again and again, whether this giving of a higher status to the Delhi Institute would

^{†[]}Hindi transliteration.

mark any improvement or expansion in technical education. I think there is some misunderstanding in his mind on this point. Higher status is a result of expansion. It is because it is going to develop into a post-graduate institution. Originally when it had been visualised as a regional engineering college, the emphasis would been on under-graduate teaching. Today there is equal emphasis on underteaching. graduate post-graduate teaching and research. We are getting highly qualified teachers from abroad, and we are providing for research. All these will give a higher status because of higher utility, because of higher productivity in terms of scientific research and scientific training. He also spoke about giving a greater bias to technical education and that there should be no limitation to technical education. I would agree with him that there should be a greater towards technical education, but that bias should start at a lower level. Unless we can introduce a degree of science and technology from almost the elementary stage and develop if considerably at the secondary stage, we cannot give a technical bias to education which, I am sure, all Members of this House want. We are considering that and we hope that it may be possible to devise measures which will bring about a much larger content of science and technology at the secondary and even at the ele-

[Shri Humayun Kabir.]

I would end by saying that I am grateful to the Members of this House, and I would also like to express, on

mentary level. But I would not agree

with him that there should be no

limitation. There must be some limi-

tation. If I place that limitation at

20,000, he may carry it to 22,000; if

I place it at 23,000 in 1966, he may

put it at 25,000. But I am sure that he will agree with me that it would

be wrong if in place of 20,000, he

there is a certain rate of development

in our country which we must never

because

made it 45,000 or 1,00,000,

forget.

my behalf and on behalf of all the Members of the House, our appreciation of the generous offer made by the United Kingdom Government and the British industries who have offered to help this institution to develop to the highest standards by offering the services of some of their finest teachers and by offering equipment and material of a very high quality.

THE DEPUTY CHAIRMAN: The question is:

"That the Bill to amend the Institutes of Technology Act, 1961, as passed by the Lok Sabha, be taken into consideration."

The motion was adopted.

THE DEPUTY CHAIRMAN: We shall now take up the clause by clause consideration of the Bill.

Clauses 2 to 7 were added to the Bill.

Clause 1, the Enacting Formula
and the Title were added to the Bill.

SHRI HUMAYUN KABIR: Madam, I move:

"That the Bill be passed."

The question was proposed.

Shri DAHYABHAI V. PATEL (Gujarat): Madam, this House is grateful to the Minister for the exposition that he has given in his speech in reply. Perhaps, that will enable me to eliminate some of the points that I wanted to raise in this discussion. I think I was well advised to wait to hear him first and then offer the few remarks that I liked to make.

Certainly we are grateful to the friendly countries that have offered us help in proceeding ahead with the establishment of these Technological Institutes. We are far behind the modern world in spite of the progress that we have made in the teaching of science and technology, and it is good to see that Government is alive—I must also say that the people are

also alive-to the situation as perhaps the hon. Minister knows. At many places people themselves have come forward to build colleges and polytechnics but under the conditions in which we live today, under the high burden of taxation the sources of philanthropy and charity have very nearly dried up and people ind it difficult to raise funds on their own. On the other hand, we are faced with the difficulty of high prices in every thing, whether it is land, whether it is building or whether it is staff. And when I mention staff, I am not at all against-I am all in favour-raising the standards and emoluments of the teaching staff, particularly in technical institutions. It is well known that industry is attracting the best people. Why? It is because it is able to offer better terms. I am happy to learn from the Minister that a very gu fraction of our Indian scientists aca te working abroad is there pertage, and smile a number of and friends whose sons have a sulay abroad to America and itself, initially, to study, have done 504 R have settled down there bee opportunity not only but of life there afterwards and and emoluments and the remuneration that they get there are far superior to anything that we could offer them here. Some of them have formed ties there. I know of some who have come back to India and have gone away disappointed whenever they could; some of them have not been able to go back because they have lost their old jobs and they are feeling so sorry that they gave up their jobs abroad and came to this country. There are a number of them. I am very glad to hear the figure that the hon. Minister has given. It is less than 2 per cent. But why should there be that 2 per cent, which feels like that? And that 2 per cent. will always be before the minds of the students who do well and pass out abroad that, here are these people. Why are they not going back? They

have made a name for themselves.

They are doing well here. Some of

them are people who have come back to this country and have gone back. That is the situation that needs to be remedied. I do not say that it can be done in a day. But that is a situation which the Government of this country, the Ministry dealing with technical education, must apply their minds I am glad that we have, accordto. ing to the Minister, over 100 engineering colleges. Really, that is what we need. But how are they faring?

SHRI P. K. KUMARAN (Andhra Pradesh): The P-Form does not apply to the people who went back?

SHRI DAHYABHAI V. PATEL: do not know what my friend refers to. I am saying that I am glad that there are one hundred engineering colleges today and we are getting so many more of technical institutions. But what is their state? Dr. caste was worried about distinctions and whether there were disabilities. But I am ing that there is going to be a caste distinction between these engineering colleges. Some are going to be called the Indian Institutes, some are going to be provincial Institutes. I am not very happy over the distinction made or the different caste mark that is being given to them. The Minister very rightly said that education should be free, without any interference, to go its own way and to progress in its own way. But if the support that they get is different, is conditioned, can we say that they are free to go their own way? I would like to know from the hon. Minister whether all the technical institutions under the concept of All-India Institutes are going to be residential colleges, whether there is going to be enough hostel accommodation available in all of them because I find that in most of the State institutions, the engineering colleges as we called them, there is such a dearth of hostel accommodation. I wish the hon, Minister visited one of the oldest engineering colleges in India, the Poona College and saw what is the fate of the students there in the hostel. The

[Shri Dahyabhai V. Patel.] room which is meant for one student is occupied by three students today. There is hardly standing room when they put three cots and there is not enough room for three tables. So, they put two tables in the corner left and manage by turns. Now, how can the students concentrate on their studies in this manner? And this, for the students who get admission into the Poona College which is supposed to be one of the best and the oldest institutions. I hope that something like this is not going to happen in all these institutions. And while I like to see the progress of technical education I do not like this caste distinction, namely, while some type of institutions are going to get everything, they are going to get full grants for residential universities and residential colleges, there are going to be institutions like the old engineering colleges which are going to be starved, or will not have enough grants to expand the primary facilities like hostel accommodation. A large number of students come from various places outside. There may be a small fraction of students who stay in the town. But it has always been found that in technical education, engineering colleges particularly, there is lot of practical work to be done which needs the students to stay on the premises or somewhere nearby all time. We have, for instance, example of Ahmedabad which has got an engineering college where a large number of students come from town. It takes them an hour to come to the college from their places and an hour to go back. How much of their valuable time is taken up in coming and going. The same would epply to Bombay where we have got two engineering colleges. I am glad the Bhabha Institute there is practically a residential institute and it has acquired a good reputation by itself. Therefore, Madam, this caste distinction between the two does not make me very happy. Why can we not have engineering colleges or technical institutions or whatever you call them of a high order everywhere? Why should there be disparity between the two, while one is starved for grants the other gets everything? That does not make me very happy, Madam.

The assurance that the hon. Minister has given us that every State has now an engineering college or technical institution is most welcome. I am. not looking at things from a provincial point of view. But I would like to say that there should be some relation to the location of the institution and the need of the area. Now, for instance, there is this large textile industry in Bombay. We have an Institute at Bombay which caters primarily to the textile need. That is a welcome feature. We have oil and natural gas in Gujarat. But we have an institution teaching this subject in the North. When the Minister gets the opportunity of starting new institutions he might bear this in mind particularly looking to the pace of expansion of the oil industry in Gujarat perhaps. So either, as a result the existing institutions may be urgraded or a new institution may be started according to our needs, according to the resources available. I am giving this only as an example. But this can be further multiplied because of the rapid strides that we are making in industrialisation.

In the North we have the coal-mines and the industry connected with coal. We have got the industries connected with steel in the North.

SHRI A. D. MANI (Madhya Pradesh): We have got Ministers also.

SHRI DAHYABHAI V. PATEL: But I do not think they come within the purview of the technical colleges. I am not referring to them. My suggestion is that in the building up of these institutions and the establishment of new institutions this factor may be taken into account.

The Minister referred to automobile engineering. In the restricted scheme of things in this country, automobile

production is going to be only in places. Institutions teaching automobile engineering and emphasising automobile industry should necessarily be nearer these areas. That is my suggestion. And particularly, the suggestion that admissions to these colleges should be on an all-India basis is a welcome suggestion.

I am glad, Madam, that selection is by competitive examination. But am afraid, the other side is not something that can be just passed off. It is well known that there is a class of students that always stand very high academically. They have always been in the first place but in the practical life, it is not necessarily the number one student that comes out better. May I say, it is more so with regard to technical colleges? Is not that the experience with regard to technical colleges? It is not necessarily very top man or the very first class man that is the best. He may be a good teacher. Usually he will make a very good teacher. But in practical life, in catering to the needs of the country, in helping to develop and build the country it is not necessarily the number one or the first class alone. I am sorry I have no remedy myself to suggest.

SHRI JOSEPH MATHEN (Kerala): What is your suggestion?

SHRI DAHYABHAI V. PATEL: That is what I am saying. I have no remedy to suggest. But that is something that we have to face in life. It may be that for a certain reason student has missed the first class. There may be some mishap in the family, he may be worried, he may be poor his circumstances may not be good. And to my mind, it is a pity that a promising student is denied a good chance just for this reason. But, as I said, I have no remedy to suggest. I am sorry this is perhaps one of the facts of life that we have to face and I mentioned it because it just came to my mind.

Madam, while one does feel happy at the progress of technical education, I am not very much inclined to say or feel happy at the restrictions that the Minister says we will have to put up with. Perhaps our resources are such that we cannot go faster. I may reluctantly agree, but I do not feel at all happy that we are going to restrict the number of admissions either to the engineering colleges or to the polytechnics or to these all-India institutions, and I would request the Minister not to make any hard and fast rule that this is going to be the pattern for the next few years. I am always an optimist and I hope that it will be possible for us to revise the present figures and make room for more students who would like to go that way because it is only by having more scientists, more engineers, more technical men that this country will be able to progress. Thank you.

Shri AKBAR ALI KHAN: Madam Deputy Chairman, so far as this Bill is concerned, I think quite rightly this House has unanimously welcomed this measure, and I am sure the House will join me to express our thanks to the United Kingdom and those who have helped us.

Madam, this idea of the Indian Institute of Technology, if I may be permitted to say so, is a very significant advance on the pattern of colleges or the regional institutions that we used to have in this country. The very object of this institute, which is the fifth one, is, if I understand rightly, to bring our scientific research, technical research in line with the progress of the country in the field of economics and industry. The very object is that it should be a national institute where all people from all parts gather. With all respect that I have for my esteemed friend, Dr. Sapru, I would say that in these institutes there should be no distinction. no reservation, except on merit. So far as my friend, Mr. Dahyabhai Patel's observation is concerned, regarding students who are brilliant [Shri Akbar Ali Khan.]

but fail to get highest marks in the examination, it may be that some unfortunate students who may be good in other ways are not able to get admission for this reason but are you going, for the sake of such exceptional cases, to come down from the established principle that merit-according to marks-should count? represent my State of Andhra Pradesh in the Institute of Technology of Madras. I have something to do with polytechnics. I can tell you that so far as our institutions of technical education are concerned, starting with certificate course, going to diploma, degree and to research institute, this establishment of the Institute of Technology with the help and advice of friendly countries is a significant advance in our pattern of technical education—they all strictly observe the principle of admission according to the marks and that is the best method of admission. I may submit that at present the difficulty is not only with foreign exchange but also with the right sort of personnel. The establishment of these institutes with the co-operation of friendly tries has served us in both ways. It has given us equipment, thus helping us in the foreign exchange problem and it has also helped us by giving personnel which was not available in our country but I entirely agree that the professors, those lecturers that are there from the other countries, whether from Germany or the U.S.A. or the U.K. or Soviet Russia, should be there as advisers and instructors and they should have a plan that within the course of 5 or 10 years the people here will be so trained and educated that there will be no need to have the foreign professors, as lecturers as far as possible.

I am sure the Education Ministry will bear this in mind when dealing with these institutes, that we do want their help—my experience is that they are very helpful in all these institutes—but it should be our earnest effort that our people should

take up their places so that our needs, our developments and the plan for modernising India may be fully met with our own people.

Yesterday in reply to my supplementary question, the hon. Minister was pleased to say something in connection with the students who do not get admission on the side of humanities and much more so on the side of technical education in the universities and in other institutions. Now, what are these young people to do? It is true that in other countries of the world, so many students do not go for universities. He is perfectly right but what will our students do after they complete their matriculation? I submit that it is a challenge to our Education Ministry and, if I may say so, to the Government and it has to be met and he has promised on the floor of this House that it is receiving the consideration of the Government and his Ministry. I hove effective steps will be taken in direction. I think earlier measures are to be taken to see what are our requirements and needs, what are the developments that we envisage and we should try to bring our education in conformity with those requirements and pattern. It is only then that our educational system will be considered to be a system that fits in with modern conditions of the Otherwise, I feel this matter is as serious as the invasion of our country when thousands of students are educated but do not find the right place to serve-serious situation may arise in the country.

In this connection may I say that so far as the certificate course is concerned, I speak subject to correction, it is being manned by his Ministry as well as by the Labour Ministry? There is a lot of scope in all the States—and I can say in my State—to have any number of these certificate courses where not even the condition of matriculation is there but a lot of technical, practical training is being given. If these institutions

are properly managed, certainly these students would like to go to them. For instance, in the Polytechnic with which I am connected we had to take 120 students. This year we have increased it to 180 but there were 900 applications and we have rejected 700 What I feel is that this matter of increasing technical institutions has to be given the top-most priority. I do not say increase it without any planning but certainly I feel that in the lower grades there is great scope. as admitted by the Minister. The facilities of technical education should be considerably increased if our development requirement, if our industrial progress, has to be met properly apart from the question of unemployment.

Now, so far as the emergency measure is concerned at least I feel that in view of this new order to shorten the course the experience is that the students were required to attend classes during their vacation, but among those students more than 10 per cent. have not attended with the result that the courses have to be completed within the short period that is their disposal. I feel the standard is bound to go down. I think the Ministry will devote some thought to this problem and see that the order passed on account of the emergency shorten the period of education is reconsidered.

I am very happy that the scale of pay of all the staff in the Polytechnics, in the colleges, in the Institutes, has been enhanced and I congratulate the Minister for the step that he has taken in this matter because without this it was difficult to get good personnel for the Institutes but at the same time I have some difficulty so far the private institutions are concerned. The Government of India have promised that for five years they will pay the increased salary. What will happen after 5 years? It would difficult for the private institutions to

meet these enhanced scales unless the Government of India or the State Government comes to their rescue. This is also a matter which deserves his consideration. Similarly, certain instructions have been given in regard to N.C.C. and no expenditure has been provided for. All these are little things but I do hope that these matters will also receive his consideration.

It is about 8 years back when the Madras institute of Technology was being established, that a deputation from Hyderabad had waited on Maulana Azad and recently also the Government has Andhra Pradesh drawn the attention of the Minister that I.I.T. should be established at Hyderabad. The pattern of this Institute is that some special knowledge will be given in each Institute situated in different places. So far as the food problem is concerned, so far as the irrigation and power is concerned I submit my State comes first in the whole of India.

Is it not necessary to have an Institute of Technology there where special efforts may be made to think out and devise and to make researches, fundamental research and also applied research, so far as these problems of irrigation and power are concerned? So I do hope that something will be done. Of course, I cannot put myself in competition with Delhi. I welcome this measure and I am very happy that Delhi also is having this Institute of Technology where we can train engineers of a very high order and with minds fitted for research work.

4 P.M.

I would like to say that I join the other hon. Members in congratulating those concerned, and in this connection I would say not only the hon. Minister but Prof. Thacker, and Shri Chandiramani and Shri Chanderkant and other friends, have done a very

[Shri Akbar Ali Khan]

good job and on behalf of Parliament, I would pay a tribute to them I think but for the imagination that they have shown the efficiency that they have displayed with a sort of desire to see that they should help the cause of education, mose of these schemes would not have made the progress that they have made today

With these words I support this measure and I hope the object with which these Institutes are established would be fulfilled in the matter of research and in the matter of designing and in the matter of adding something to the knowledge of the world and that the hopes that the country has in these Institutes will be fulfilled Thank you

श्री राम सहाय (मध्य प्रदेश) सभापति महादया, इस बिल का मै हार्दिक समर्थन करता हु। इसके मिलसिले में कछ ग्रापनिया उठाई गई है ग्रौर इन मे से एक ग्रापत्ति या उठाई गई है कि देहली कालेज का इन्स्टीट्यट करार देने से क्या मतलब है और इसे देहली युनिवर्सिटी के ग्रन्तर्गत क्यो नही रखा जाता। ही मेरा इस सम्बन्ध मे निवेदन है कि इस कालेज का नेशनल इम्पार्टेम दने के लिये ही तो इसको इस एक्ट की परव्य मे लाया गया है भ्रौर इसके बाद या इस्टीट्यूट खुद एक युनिवर्सिटी के रूप मे बन जायगा और इसका प्रबन्ध जो इसकी खुद की सस्था होगी उसके द्वारा मचालित होगा श्रीर यह बिल्कल एक ग्रलग सस्था के रूप मे ग्रलग तरीके पर काम करेगा श्रौर इसके हकक जो है वे एक ग्रलग तरीके पर होगे । इस तरह से में समझता हू कि इसका एडिमिनिस्टेशन भौर इसका एजुकेशन बहुत अच्छा हो जायगा भौर जब कि खास तौर पर इसके लिये हमे विदशो से सहायता मिल रही है तब मै समझता है कि यह एक बहुत ग्रच्छा इस्टीट्युशन बनेगा ।

सिलसिले ग्रभी इसके कि बाते कही गई यहा टैक्नीकल एजकेशन के जैसी तरक्की हानी चाहिये वैसी तरक्की नहीं हुई है। इस सम्बन्ध में मरा यह निवेदन है कि स्राज दनिया मे जिस प्रकार से साइस की याश्रौर चीजो की तरक्की हारही है उसी प्रकार स हम एक माथ होना चाहेतो वह सम्भव नहीं है क्योंकि हमारे जितने रिमोर्मेज है उनवे ग्रनसार ही हमको काम करना पडता है । लेकिन स्रगर स्राप गौर करेगे तो भ्रापको पता चलगा कि इडिपेडेस के पहले हमारे यहा डिग्री कोर्म के कुल ३८ इस्टीटयशस थे जो म्रब बढकर १११ हो गये है श्रौर डिप्लोमा कार्स के कुल कि ग्रब बढ़ कर २१० हो ग्राप देखिये है । ता गौर करिये कि कितनी ज्यादा तरक्की इस में हुई है। इतना ही नहीं, सन् १६४७ मे डिग्री कोर्म के लिये जो भर्ती की जाती थी उसकी मख्या २६४० के लगभग थी ग्रीर १६६२ मे जो भर्ती की गई है उसकी सख्या १७ हजार से ऊपर है स्रौर मे समझता ह कि इस साल १६६३ मे कम से क्म २० हजार लडके डिग्री कोर्स मे भर्ती हुए है । इसी प्रकार से डिप्लोमा कोर्स के लिये देखा जाय तो सन १९४७ मे ३६७० लडके भर्ती हये थे और ग्रब इस वक्त लगभग ३० हजार लडके भर्ती हुए है ग्रौर निकट भविष्य मे दो माल के अन्दर डिग्री कार्म मे लगभग २३ , जार और डिप्लोमा कोर्स मे लगभग ५० हजार स्ट्डेंट्स को भर्ती करेगे। इतना ही नही, जैसा कि अभी श्री अकबर खा ने फरमाया था कि जो स्टूडेट्स मैट्कि के नीचे रह जाते है उनके बारे मे भी विचार करना चाहिये तो उन के लिये भी पालिटेक-निक्स श्रौर जुनियर पालिटेकनिक्स खोलने की तजबीज है श्रौर उसके श्रन्तर्गत वे हब लडके भी जो कि मैट्कि के नीचे के है निश्चय ही प्रवेश पा सकेंगे भौर उन मे उनको जमह मिल सकेगी।

ग्रभी इस बारे में भी बहस की गई कि मेरिट्म के ग्राधार पर भर्ती नहीं होती है ग्रौर उसके ग्राधार पर भर्ती की जानी चाहिये। मेरा निवेदन है कि मेरिट्स के ग्राधार पर भरता तो बहुत पहले से ग्रुफ हो गई है ग्रौर हर एक स्टेट में इसके लिये पूल सिस्टम जारी हो गया है ग्रौर इसके लिये पूल सिस्टम जारी हो गया है ग्रौर इसके लिये सब कालेजों के प्रिसिपिल्स बैठते है ग्रौर वे सब मिल कर भर्ती करते है। वे सेलेक्शन करते है ग्रौर मेरिट का कोई लडका भर्ती होने से रह जाय ऐसी कोई दिक्कत पैदा नहीं होती है। तो मेरा यह निवेदन है कि इस प्रकार में जितना भी कार्य चल रहा है वह बहुत ही ग्रच्छा चल रहा है।

ग्रभी श्री ग्रकबर ग्रली खाने कुछ ग्रधि-कारियों के बारे में सराहना की । मैं भी इस सराहना मे उनके साथ गरीक होना चाहता हु । मेरा इस बारे मे पर्सनल ग्रनुभव है । अभी जब हमने इजीनियरिंग कालेज खोला तब ग्रगर कबिर साहब ने मदद न की होती ग्रौर वे स्वय भोपाल न पधारे होते ग्रौर उसके लिये इन्टरेस्ट न दिखाया होता तो निश्चय ही हम उस कालेज को प्रारम्भ नही कर सकते थे। इसी तरह से श्री चन्द्र कान्त से जो हमे गाइडंस मिली स्रीर जिस प्रकार से उन्होंने दिलचस्पी ली उसकी वजह से हम उस कालेज को चाल कर सके है, वर्ना यह सम्भव था कि हम उसे अब तक चालू नही रख पाते क्योंकि बहुत सी दिक्कते इस प्रकार की ग्राती है जिनमे बहुत कुछ गाइडेस की जरूरत होती है ।

श्रव, चूिक गवर्नमेट के रिसोर्सेज सीमित है—हम टैक्सेशन का भी विरोध करते है— इसिलये हमारा यह कर्त्तव्य होना चाहिय कि इस काम के लिये हम पब्लिक के रिसोर्सेज को भी श्रवश्य टैंप करे ग्रीर ग्रगर पालिटेक-निक्म, जूनियर पालिटेकिनिक्स ग्रीर टैक्नीकल कालेज खोलने के लिये हम प्राइवेटली कुछ मैंनेज कर सके तो सेट्ल गवर्नमेट ग्रीर स्टेट गवर्नमेट्स से भी हमको पूरी पूरी सहायता मिल सकती है स्रौर हम काम को चला सकते हैं।

श्रभी चन्द्र कान्त जी ने "टैक्नीकल एजुकेशन इन इण्डिया टुडें के नाम से जें किताब लिखी है वह बहुत ही अच्छी जानकारी इमको देती है कि किस प्रकार की हमारे देश को स्रावश्यकता है स्रौर किस किस प्रकार से देश मे इसका कार्य चल रहा है, इन्जीनियर्स की कितनी तादाद है श्रौर हमको कितनो की ग्रौर ग्रावश्यकता है, सन् १६४७ मे ग्रौर सन् १९५४ मे जो कमेटी बनी थी उसने क्या क्या बाते बताई है ग्रीर उसके ग्राधार पर क्या त्रावश्यकता है ग्रौर हमको किस तरह से गवर्नमेट से सहायता मिल सकती है वगैरह वगैरह सारी बाते हमको उसमे मिलती हैं। तो मेरा निवेदन है कि माइटिफिक रिसर्च एड कल्चरल एफेयर्स मिनिस्ट्री की तरफ से जो भी काम इस सम्बन्ध मे हो रहा है वह बहत ही सराहनीय है।

में एक बात यह भी निवेदन करना चाहता ह कि पहले साधन-सम्पन्न लोगों के चडके ही भर्ती हो सकते थे लेकिन ग्राज इस प्रकार से ज्यादा कालेजज खोलने की वजह से देखते है कि बिना साधन सम्पन्न लोगो के लडके भी इन कालेजेज मे भर्ती हो सकते है श्रौर भर्ती होते है--जैसा कि मेरा स्वय का ग्रन्भव है जो हमारेयहाविदिशामेजो हमने इजीनियरिंग कालेज खोला है उससे प्राप्त हुन्ना है । इतना ही नहीं, जहा इस प्रकार के कालेजेज खुल जाते है वहा लड़को की तालीम का स्टेडर्ड भी कुछ ग्रच्छा ो जाता है। हमने देखा कि हमारे विदिशा मे जब हायर सेकेन्डरी में ही हमने कालेज खोल रखा था तो हमारे पास चार दरजे म्रार्टस के थे ग्रौर एक साइस का था लेकिन जैसे ही वहा इजीनियरिंग कालेज शुरु हुम्रा, वहा म्रब चार साइस के दरजे हो गए है, एक ग्रार्ट का हो गया, यानी बिलकुल उल्टा हो गया श्रौर लड़को मे ग्रौर उनके माता पिताग्रो मे भी

[श्री राम सहाय]

यह भावना पैदा हो गई है क इजीनियरिंग के कालेज में भर्ती करें इसलिये लड़कें भी इस बात की कोशिश करते हैं कि ग्रच्छे डिवीजन से पास हो श्रोर उनके माता पिता भी इस श्रोर खास ध्यान रखते हैं। वैसे तो एजूकेशन के सम्बन्ध में कही किसी प्रकार की उन्नर्ति हुई हो या न हुई हो लेकिन यह मैं निश्चयात्मक रूप से कह सकता हू कि टैक्नीकल एजूकेशन में इस थोड़े से जमाने में जितनी उन्नति हुई है वह बहुत सराहनीय है यद्यपि हमें ग्रभी काफी उन्नति करनी है इसमें सन्देह नहीं है।

सन् १९५४ मे ग्रगर हम देखें तो यु॰ एस॰ एस॰ श्रार॰ मे हर दम लाख पर २६० इन्जीनियर थे जब कि हर दस लाख पर य० एस० ए० मे - १३७ थे श्रौर वेस्ट जर्मनी मे ५६ श्रौर श्रपने भारतवर्ष मे केवल ६ थे। लेकिन सन १९४४ के बाद से जिस तरह से हमारे इन्स्टीट्यशन्स खुले है ग्रौर जिस प्रकार से हमारे यहा उनमे वृद्धि हो रही है उससे में निश्चयात्मक रूप से कह सकता हु कि हम अपनी कमी को बहुत जल्दी ही पूरा कर सकेंगे । श्रभी इस सिलसिले मे हमारे सप्नु साहब ने शायद यह फर्माया था कि हमे यु० एस० एस० ग्रार० मे बहुत ज्यादा विद्यार्थी भेजने चाहिये। मै उनसे निवेदन करूगा कि इस वर्ष मे, १६६२-६३ मे, जहा १६३ विद्यार्थी बाहर गये है तो उसमे सब से ज्यादा सख्या--- ५२ विद्यार्थियो की---- उन की है जो कि यु० एस० एस० ग्रार० गए हैं श्रौर इसके ग्रलावा श्रौर जगह जो विद्यार्थी गए है वह उतनी नही है। यू० के० मे २८ गए हैं, यू० एस० ए० मे भी कुछ विद्यार्थी गए है ग्रीर में समझता हू इंजीनियरिंग में कोई भी विषय ऐसा नही है जिस विषय के लिये विद्यार्थी बाहर न भेजे गए हो । सिविल इजीनियरिंग, मेकेनिकल इजीनियरिंग,

इजीनियरिंग के साथ साथ हर एक टेक्नालाजी के सबंध में, रेडियो के सबंध में, शिपिंग के सबंध में, टेक्सटाइल के सबंध में, जिस प्रकार से भी हम देखें, उनकी पूरी सख्या को देखें तो २३ प्रकार के सबजेक्ट्स की शिक्षा के लिये हमारे विद्यार्थी बाहर गये हैं और इससे भी पहले बहुत से विद्यार्थी बाहर जा चुके हैं। यह तो मेंने केवल इस वर्ष का ही ग्राप के सामने जिक किया है। तो मेरा ऐसा निवेदन है कि हमारे यहा जो इस प्रकार से उन्नति हो रही है वह बहुत ही सराहनीय है।

हम जब देखते हैं कि लडको की सहायता के सबध मे क्या विचार हुन्ना है, तो हम पाते है कि उनको बहत काफी सहायता दी जाती है । स्कालरशिपस हर एक दरजे के लिये है, बी० ई० के बाद भी है, एम० ई० के बाद भी है श्रौर पी० एच० डी० के लिये भी है ग्रौर बाहर जाने के लिये तो कई प्रकार की स्कालर-शिप्स रखी है। इतना ही नही स्राप देखें कि जो लोग विदेश जाना चाहते हैं उन्हे ग्रनसधान करने के लिये भी २.५०० रुपये सहायता दी जाती है जिससे वे ग्रपने खास विषयो मे विदेशो मे ग्राधनिक तरीको तथा विकासो का प्रत्यक्ष ग्रध्ययन कर सके या उच्च स्तर के ग्रन्तर्राष्टीय सम्मेलन मे जाने के लिये उनको सहायता दी जाती है या विदेशो मे ग्रपने समकक्ष व्यक्तियो के साथ सम्पर्क रखने के लिय सहायता दी जाती है। इतना ही नही, भारत में जो ग्रपने निजी ग्रनसधान कार्य के परिणामो को स्पष्ट करने के लिये लेक्चर देना चाहे उनको सहायता दी जाती है। कई प्रकार की ऐसी सहायताए ही नही दी जाती है बल्कि लोन भी दिए जाते हैं। ग्रभी जो स्कीम जारी की गई है उसमे स्टूडेन्ट्स को लोन देने की तजवीज की गई है, वह तजवीज बहुत

भ्रच्छी है। लेकिन उसके बारे में मेरा एक निवेदन है ग्रौर वह निवेदन यह है कि जो स्कालरशिप्स दिये जाते हैं वे उनको दिये जाते हैं जिन विद्यार्थियों के ६० परसेन्ट मार्क्स होते हैं । लेकिन जो लोन देने का तरीका रखा है वह भी ६० परसेन्ट तक ही देने का रखा है । मेरा यह नम्म निवेदन है कि जब कोई विद्यार्थी एक दफा इन्स्टीट्युशन में जाय ग्रौर वह भी जो इस तरीके पर गवर्नमेंट ने प्रेस्काइब किया हो या यनिवर्सिटी ने किया ही, तो फिर उसमें यह भेद करना कि इस लड़के को कर्जा दें, उस को न दें यह बात कुछ मुनासिब नहीं है ग्रीर इस बारे में में ग्रर्ज करूंगा कि उसको ६० परसेन्ट के बजाय ग्रगर हम ४४ परसेन्ट भी कर दें तो बहुत कुछ मसला हल हो स्केगा। कारण यह है कि म्राजकल जो भ्राम तौर पर भर्ती की जाती है मेरिट के हिसाब से. उसमें ५० परसेन्ट से बिलो मार्क के लडके भर्ती नहीं किये जाते. उनकी भर्ती करने की बात उचित भी नहीं होती क्योंकि वे इस तालीम के योग्य अपने को साबित नहीं कर सकते । तो इसलिये मेरा निवेदन है कि हमको इन सब बातों पर ध्यान रखने की स्रावश्यकता है।

में फिर एक बार किबर साहब का धन्यवाद ग्रदा करूंगा कि ये बिल जो वे लाए हैं यह केवल दिल्ली के लिये ही नहीं है ग्रौर दिल्ली के उस सीमित दायरे को भी उन्होंने समाप्त कर दिया है ग्रौर वह एक सारे भारतवर्ष का इन्स्टीट्यूशन बन रहा है । में उसके लिये उनको बधाई भी देता हूं, मुवारकबाद भी देता हूं ।

Shri Krishna Chandra (Uttar-Pradesh): Madam Deputy Chairman, I rise to give my full and whole hearted support to the Institutes of Technology (Amendment) Bill which is now under discussion.

[THE VICE-CHAIRMAN (SHRI M. GOVINDA REDDY in the Chair.]

Institutes of Technology the best pattern of engineering education in this country and I am glad that the Delhi College of Engineering and Technology is now being added, by this Bill, to the existing Institutes of Technology which are at Kanpur, Madras, Bombay and Kharagpur, The Delhi students will now have the advantage of getting the best engineering education in the country through this College. As has been mentioned by the hon. Minister-he has been pleased to say-the salary of the teachers in these technical institutions has been raised in order to attract the best talent in the country. I would most humbly submit to him that the scale of salary that he has been pleased to indicate, Rs. 400 to Rs. 3000, is, I should say, not very attractive to the best technical talent in the country. The technical people should get a higher scale of salary than the one available to the I.A.S. and other services. It has been an accepted thing that technical all over education should get the best fremuneration. People having technical education should get the best remuneration. Now, a graduate who has passed the highest examination in technical engineering can get a very high pay and attractive salary in any of the industrial concerns. So, the better talents that pass out of our engineering colleges will be attracted towards industry where they will get higher emoluments and these Institutes of Technology will have to content themselves with ordinary talents.

So I would request the hon Minister that, as is the case in the U.S.S.R., technical people should get the highest scale of salary available to any person in any of the services in the country. So the scale should be raised.

Another point I would like to place before the hon. Minister is that yesterday—fortunately he is now the [Shri Krishna Chandra.]

Minister of Education and in charge of technical education as well-while giving replies to my supplementary questions he stated that out of 7.666 persons who applied for admission to the Delhi University on the arts side, 6,182 were admitted and 1,484 were left out. Similarly, for science faculties 2,048 students applied and out of that only 1523 were given admission. So I ask what steps the Government are going to take or is contemplating in regard to these people who have been left out, who have been refused admission. I do not for a moment mean to say that inferior stuff should be admitted into the universities. If the hon. Minister wants to raise the standard of education in the universities, he will have to put up some distinctions as criteria by which they can get admission into the universities but at the same time as Government they have to consider what they are going to do in relation to so many persons who have passed the Higher Secondary examination but who have been refused admission into the university. In other countries they are taken into the industry or into technical education. Now in our country industries do not take any raw people who come out from the schools. They are afraid of them. They think that these students, if taken in as tradesmen, will create mischief among the labour and so they avoid taking educated persons in the industries. So, something has got to be done for these people. Either you start more technical institutions so that all people may be absorbed and they might after passing out from them get into some useful employment somewhere in the industry.

My next point is this. From the debate that has gone on on this Bill it has been clear, I think, to the hon. Minister, that hon. Members of Parliament have not much knowledge of the kind of engineering institutions and the number of engineering institutions that exist throughout the country at present. The previous speaker,

the hon. Mr. Ram Sahai referred to the book 'Facilities for Technical Training in India' by Mr. Chandrakant. I am glad that he brought out this book. It gives information not only to Members of Parliament but to all others who want to know about the facilities that are available for technical education in the country. In this connection I would submit to the hon, Minister that this book has become out of date now. Many institutions have come up in the country after this book was published and so a new edition has got to be brought out or a supplement has got to be brought out so as to include all other institutions that have come into existence after the publication That will give us an idea this book of the engineering colleges. they are situated, how admissions are made to them, etc. I drew the attention of the Department repeatedly that they should bring out some supplement in order to give an idea of the other institutions that have come up and every time I was given an assurance that this supplement will brought out but it has not so far been done. That is why I am bringing it to the notice of the hon. Minister that he should see that this supplement is now brought out.

Now, an enquiry I would like to make of the hon. Minister is that up till now in the Kharagpur Institute there have been admissions to the five-year course and also to the four-year course. I want to know from the hon. Minister whether this pattern is going to be retained, this pattern of

having both the five-yearcourse and the four-year course, or whether they are going to give it up and have a uniform pattern of four-year course in all these Institutes.

The hon. Mr. Dahyabhai Patel said that by giving a distinction and higher glamour to these five Technological Institutes in the country the Government is creating a class of tions just like the Scheduled Castes. He is very much mistaken. We have to develop institutions in the country within our own resources. We cannot make every institution for technical education up to the standard of that Technological Institutes. So we must have some pattern and therefore the Government of India has created a certain pattern. Up till now there were only four Institutes and now one has been added. Let us hope that in the near future more and more will be added and we will have a number of technological institutes available to students from all over the country who want to get the highest technical education.

With these words, Sir, I support this Bill.

شری عبدالغلی: وائس چیرمین صاحب - میں اس استیم پر کچهه زیاده عرض نہیں کروں کا - صرف دو تین گذارشات کرنا چاعتا هوں - پہلی تو یہ هے که اس میں جو آپلوما عولارس هیں ان کے لئے منسٹر صاحب کو کچه نه کچهه نه کچهه پرسنتیم رکهنا چاهیئے تاکه ان کو داخله مل سکے اور وہ بهی اس سے فائدہ اتھا سکیں -

دوسری بات یہ عرض کرنی ہے کہ انہوں نے اس بل بل پر کچھہ نہیں کہا - لیکن میں یہ 504 RSD-6.

عرف کرنا چاھتا ھوں کہ سپرو صاحب کی تقریر کے بعد منجھے یہ ضرورت محسوس نہیں ھوئی کہ میں زیادہ اس بل کے متعلق کہوں – رام سہائے جی نے جو کنچہ فرمایا اگر میں اس کا مقابلہ کروں تو جو اکبر نے کہا ہے –

مجلس ان کی ساقی ان کا آنکهیں اپذی باقی ان کا

ولا تو انگریز کا زمانه تها اس والت ھمارے بنچوں کی ترقی سے انہیں کوئی مطلب نهین تها که وه کوئی انجیلهر ہئے یا کوئی کسی چھڑ مھی ماھر ھو جائے لیکر آے ایمرجلسی کے زمانہ میں جب که همهن سب سے زیادہ فنرورت ایسے لوگوں کی ہے جو تھکلھکل لائن مهن سب سے زیادہ شاندار هوں اور شائلنگ هوں - مهن نے انسائی الهوشن بوهانے پر مبارکباد دی تھی لھکی یہ کها تها که نهرو سرکار کو ا*س* چهز پر جتنا رویهه خرج کرنا چاهیئے تها جتنی متحلت اس چهز پر کرنی چاهیئے تھی جتنى ترقى اس جهز كىكرنى جاهيئي تھی وہ نہیں ہو رہی ہے یہ میں نے اس لگے کہا۔ تھا کھونکہ مھی محصوس كرتا هوں آہے جب كه جاروں طرف همارے جو اپنے تھے وہ دشس هو کئے اور جو دشس تھے ولا تو ھھی ھی۔ أيسے وقت مهن جب كه همهن بارةر ہر پریشانی کا سامنا کرنا ہے رہا ہے تہ ھمارے ملک کی هر طرح سے اندستریل طور پر ترقی هو اور هداری

[شرى عبدالغذي] فوجوں کو سامان کے لئے جو سہولیت هو اور همارے بارةر پر جو سياهي هيں ان کو محدوظ رکھنے کے لئے ہر طرح کی مشیدری اور به:درین مشهدری مہیا هو تو ان سب چهزوں کے لئے ھمیں بڑے بڑے تیکنیکل اسکولوں کی ضرورت هے - میں سمجھتا ہوں که اس وقت همیں منستر صاحب کے هانهون کو مضهوط کونا چاهنے تاکه وا ایسے انستی تیوشنوں کو برهائیں اور جو هوشهار لو<u>کے</u> هیں ولا اس میں هاته، بقائيس ابلى قابليت كا فائدة اتھائیس اور زیادہ سے زیادہ دیص کو سرد کریں - اس لئے ان کو موقعه ملے - میں نے یہ اس لئے کہا کہ

بھائی اکبر علی خاں نے بہت هی کامیابی کے ساتھ، اپنے وچار رکھتے هولے کنچهه بهائیوں کی تعویف کی مهن بهی کونا هون لیکن مین ان سے کہاا چاھتا ھوں کہ جہاں تک ولا كهتم ههل كه فارن ايكستهونم کی دلت آئی ہے والس چیرمین ماهب - میں سنجهدا هوں که جهاں کرنا ہوتا ہے وہاں وہ کو ہی لهتے هیں - آپ بھی جانتے هیں که کل عی کی باس ہے که نیپکو انڈسٹری كا قصه چلا - پىچاس لاكهه ميں جو چھڑ ملتی تھی سرکار نے نہیں لی

زیادہ روپیه دیا جائے۔

2879 Institutes of Technology [RAJYA SABHA] (Amdt.) Bill, 1963 اور ایک کرور تیس لاکهه کی اجازت دے دی اور کہا یہاں تک جاتا ہے که اس سے کچهه بلتا نهیں - تو جهاں فاون ایکسچهنم خرج کرنا هوتا ه وهاں کرتے ہیں - اس لئے یہاں بھی اگر همیں اپے استورةنتس کے لئے کوئی سامان منگوانا ہوے کوئی استاد منگوانے پڑیں اور ان استادوں کو روپید دیا پہے تو ولا زیادہ سے زیادہ دینا چاهیئے اور أس لئے دیلا چلھیئے که آپ کو یاد ھوگا که پاہو نے کراچی میں منستروں کے لگے پانچسو روپھے مقرر کھا تھا اور انجهلیر اور تهکلیشین کے لئے کوئی لیسف نهین رکهی تهی اور بهت زیاده دیلے کی اجازت دی تھی۔ اس للم ان کو بے شک زیادہ سے زیادہ دیجئے - منستروں نے اپنی تنخواہ زیاده کولی پانچسو کی جگهه هزارون رویه، خارج هوتا هے اس لئے یہاں بھی کچهه زیاده خرچ کرنا پوے تو کوئی حرج فی باسل نہیں ہے - کیوں که گاندھی جی نے پہلے ھی اجازت دے

> میں بہر حال پہر سے مہارک باد دیتا هوں اور یه سمنجهها هوں که یه تدم اچها هے اور خدا کرے یه قدم اور آگے بوھے ۔

دى تېي ـ

† श्री ग्रब्दुल गनी : वाइस चेयरमैन साहब, मैं इस स्टेज पर कुछ ज्यादा अर्ज नहीं करूंगा। सिर्फ दो तीन गुजारिशात करना चाहता हूं। पहली तो यह है कि इसमें जो

^{†[]} Hindi transliteration.

डिप्लोमा-होल्डर्स हैं उनके लिये मिनिस्टिर साहब को कुछ न कुछ परसेंटेज रखना चाहिये ताकि उनको दाखिला मिल सके श्रौर वह भी इससे फायदा उठा सकें।

दूसरी बात यह श्रर्ज करनी है कि उन्होंने फरमाया कि मैंने इस बिल पर कुछ नहीं कहा। लेकिन मैं यह श्रर्ज करना चहता हूं कि सप्र साहब की तकरीर के बाद मुझे यह ज़रूरत महसूस नहीं हुई कि मैं ज्यादा इस बिल के मुतालिक कहूं। राम सहाय जी ने जो कुछ फरमाया ग्रगर मैं उसका मुकाबिला करूं तो जो श्रकबर ने कहा है।

मर्जीलस उनकी, साकी उनको ग्रांखें ग्रपनी, बाकी उनका

वह तो ग्रंग्रेज का जमाना था उस वक्त हमारे बच्चों की तरक्की से इन्हें कोई मतलब नहीं था कि वह कोई इन्जीनियर बनें या कोई किसी चीज में माहिर हो जायें। लेकिन श्राज एमरजेंसी के जमाने में जब कि[।] हमें सबसे ज्यादा जरूरत ऐसे लोगों जो टैक्नीकल लाइन में सबसे ज्यादा शानदार हों श्रौर शाइनिग हों। इन्स्टीट्यशन बढ़ाने पर मुबारकबाद दी थी लेकिन यह कहा था कि नेहरू सरकार को इस चीज पर जितना रुपया खर्च करना चाहिये था जितनी मेहनत इस चीज पर करनी चाहिये थी, जितनी तरक्की इ स चीज की करनी चाहिये थी. वह नहीं हो रही है। यह मैंने इसलिये कहा था क्योंकि मैं यह महसूस करता हूं ग्राज जब कि चारों तरफ हमारे जो अपने थे वह दुश्मन ही गये श्रीर जो दश्मन थे वह तो हैं ही। ऐसे वक्त में जब कि हमें बोर्डर परे परेशानी का सामना करना पड़ रहा है तो हमारे मुल्क की हर तरह से इंडस्ट्रियल तौर पर तरक्की हो श्रौर हमारी फौजों को सामान के लिये हर सहलियत हो श्रौर हमारे बार्डर पर जो

सिपाही हैं उनको महफूज रखने के लिये हर तरह की मशीनरी श्रीर बेहतरीन मशीनरी मुहय्या हो तो इन सब चीजों के लिये हमें बड़े-बड़े टैक्नीकल स्कूलों की जरूरत हैं। मैं समझता हूं कि इस वक्त हमें मिनिस्टर साहब के हाथों को मजबूत करना चाहिये ताकि वह ऐसे इंस्टीट्यूशनों को बढ़ायें श्रीर जो होशियार लड़के हैं वह उसमें हाथ बटायें, श्रपनी काबलियत का फायदा उठायें श्रीर ज्यादा से ज्यादा देश को सर्व करे। इसलिये उनको मौका मिलें। मैंने यह इसलिये कहा कि ज्यादा रुपया दिया जाये।

ग्रकबर ग्रली खां ने बहुत भाई ही कामयाबी के साथ ग्रपने विचार रखते हुए कुछ भाईयों की तारीफ की । मैं भी करता हूं । लेकिन मैं उनसे कहना चाहता हूं कि जहां तक वह कहते हैं कि फौरेन एक्सचेंज की दिक्कत ग्राती है, चेयरमैन साहब, मैं समझता हू कि जहां करना होता है वहां यह कर ही लेते हैं भ्राप भी जानते हैं कि कल ही की बात है कि नेप्को इंडस्टीज का किस्सा चला। पचास लाख में जो चीज मिलती थी सरकार ने नहीं ली ग्रौर एक करोड़, तीस लाख की इजाजत देदी ग्रौर कहा यहां तक जाता हैं कि इस से कुछ बनता नहीं। तो जहां फौरेन एक्सचेन्ज खर्च करना होता है, वहां करते हैं। इसलिये जहां भी स्रगर हमें ग्रपने स्टूडेंट्स के लिये कोई सामान मंगवाना पड़े, तो कोई उस्ताद मंगवाने पड़ें ग्रौर इन उस्तादों को रूपमा देना पड़े ज्यादा से ज्यादा देना चाहिये ग्रौर इसलिये देना चाहिये कि ग्राप को <mark>याद</mark> होगा कि बापू ने कराची में मिनिस्टरों के लिये पांच सौ रुपया मुकरेर किया था भ्रौर इंजीनियर भ्रौर टैक्नीशियन लिये कोई लिमिट नहीं रखी थी ग्रौर बहुत ज्यादा देने की इजाजत दी थी। इसिलये उनको बेशक ज्यादा से ज्यादा दीजिये। मिनिस्टरों ने स्रपनी तनख्वाह ज्यादा करली,

[श्री घड्दल गनी]

पांच सौ की जगह हजारों रुपया खर्च होता है इसलिये यहां भी कुछ ज्यादा खर्च करना पड़े तो कोई हुर्ज की बात नहीं है। क्योंकि गांधी जी ने पहले ही इजाजत देदी थी।

मैं बहुरहाल फिर से मुबारकबाद देता हूं भीर यह समझता हूं कि यह कदम मच्छा है भौर खुदा करे यह कदम भौर आगे बहें।

SHRI HUMAYUN KABIR: Mr. Vice-Chairman, I had not thought that I would have to intervene again, but a few points have been raised to which I think, I should give brief replies. Shri Patel was quite correct in saying that we are not having public contributions on as large a scale before, but even today there generous people and the open-door continuing by which policy is still institutions are being established.

I have dealt with the question migration of scientists and I have nothing much to add. We all desire that our best scientists should return to the country, but we have to give them time. By and large, I think, it is true to say that we are not losing many scientists abroad to foreign countries yet.

He also referred to catse distinction among institutions, but my hon. friend, Shri Krishna Chandra, has given a very effective reply to that. So, I will not deal with that further.

One point which Shri Patel raised is very serious and that is about the question of hostel accommodation. I agree that a great deal has to be done in this direction. We have also taken certain measures for improving hostel facilities. We give interest-free loans for the construction of hostels. Till now about Rs. 7 crores have been given as interest-free loans and by the end of the Third Plan the amount will be about Rs. 13 crores. Provision has been made for more than 40,000 students in hostels. So far as the Insti-

tute of Technology are concerned, they are almost 100 per cent residential. In the case of others also, we provide for hostel facilities up to fifty per cent. As I said, these loans are being given to all these institutions. They have not yet taken full advantage of it. hope we will be able to complete this programme and meet the deficiency to a large extent.

Then Shri Patel referred to the need for specialisation and for offering facilities in areas where there are special needs. This is always kept in view. That is why we have the School of Mines at Dhanbad. have also appointed a special Committee to go into the question of location of post-graduate courses in petroleum technology and this Committee is surveying. One of the places suggested is Baroda, but, of course, the final location will depend on the recommendations of this Committee.

Then, he referred to the question of selecting the best students. He was not happy that there should be a competitive examination, but he himself said there is no other alternative. If it is not by a competitive examination, what other method can we follow? If we follow the method interview, I am sure that hon. Members of the House will realise that the personal factors may become so portant that sometimes the ends justice may be defeated. In this perfect world we have to do with the best available instrument and so far no one has been able to suggest a better method than competitive examinations.

He finally referred to the need for a revision of targets. We have been revising targets all the time. In the Second Plan, the target had originally placed at something 8,000 or 9,000 admissions. At the end of the Second Plan. We actually achieved 14,000. In the Third Plan the target was placed at about 20,000. We have probably this year if not

achieved near-achieved it and certainly we shall go beyond that figure next year and before the end of the Third Plan we will have surpassed the target by at least 2,000 or 3,000. Therefore, we are always revising the targets and we shall keep this in mind. we do not also want to proceed beyond what the country can absorb.

Mr. friend, Shri Akbar Ali Khan, wanted no reservations at all. But I think considering . . .

SHRI AKBAR ALI KHAN: Not in the case of the Indian Institutes of Technology. In the case of the local colleges it can be done.

SHRI HUMAYUN KABIR: There also, under the Constitution, the Scheduled Castes and Scheduled are entitled to certain reservations and without changing the Constitution this reservation cannot be denied. from that I think there is a case making certain reservations for Scheduled Castes and Scheduled Tribes because they have been denied opportunities for a long period in history. Today, when we reserve seats them it is not a matter of grace. It is not that we are doing any charity. We have always to look upon it as a kind of expiation for our past sins, a redress of certain social injustices which have been inflicted upon them. Today society most make good loss and it will pay society very richly in the end. Before 1947, the number Scheduled Castes students with post-graduate degrees could be counted on one's fingers. Today they running into tens of thousands. Today we are having in scientific laboratories Scheduded Caste students Scheduled Tribe students carrying on research. Members of this House will remember with pleasure that in the Indian Foreign Service examination this year, some Scheduled Tribe candidates were right near the top. this proves that given the opportunity they can come up, but for a number of years additional facilities and opportunities have to be given to them.

Shri AKBAR ALI KHAN: I have full sympathy for them. But still I do think that merit would be sacrificed in the case of such institutes which are for research and higher studies, if reservation is made. I do admit that they should get reservation in the local engineering college, polytechnics and other things.

THE VICE-CHAIRMAN (SHRI M. GOVINDA REDDY): There is a constitutional provision.

Shri HUMAYUN KABIR: I have nothing further to add to what I have said on this point, if in spite of that, my friend still holds his view. Some facilities have to be given to the students even in these institutes and they have justified it. Those who have come there have, after a year or two, competed on equal terms with students who came in open competition.

My hon, friend referred also to the question of improving the quality of teachers. I am entirely at one with him. My only hope is that we have sufficient idealism among the students of today to take to the comparatively less paid profession of teaching. My friend, Shri Krishna Chandra, gested that they should be paid more than in any other service. I wish it were possible, but I think there are In any case, I cannot difficulties. visualise for many years to come a situation where a teacher of technology will be paid more than a captain of industry. He was not satisfied with a starting salary of Rs. 400. In certain cases, not in all cases, the salary goes up to Rs. 3,000. I think in our circumstances we cannot do Even Rs. 400 better than that. to Rs. 1,800 would be quite an attractive scale if we could offer uniform continuous scale like But there are difficulties even that. in that regard,

[Shri Humayun Kabir.]

Then, my hon, friend raised the question of employment opportunities. This was a point which was raised also by my hon. friend. Shri Krishna Chandra. The point was, what happens to those students who do not get admission into the college or into technological institutions? The answer is that you cannot establish colleges only because some students have passed the higher school certificate examination. My friend, Shri Krishna Chandra, said that he was prepared to raise the standard of admission. Today we have in Delhi less than 40 per cent. as the marks for admission to arts courses. Even then some 1400 students could not be accommodated. We had about 45 per cent, for admission to science courses. Even then about 1300 or 1400 students could not be accommodated. If he is going to raise the standards, I am entirely at one with him, but then the number of refusals will be much larger. The solution to this is on other lines, and I think my hon, friend, Shri Akbar Ali Khan, indicated a right approach when he said that this has to be done at the high school level and perhaps even before. The certificate courses run by the Labour Ministry certainly offer one answer. The junior technical schools, which we have started. another answer. For the seven or eight months I have been trying to pursue this matter. I wrote the Chief Ministers of all the States suggesting that if we can devise measures by which about 40 to 45 per cent. of students at the secondary level could be diverted to junior technical schools or other industrial or trade schools, the pressure on colleges technological institutions would be very greatly reduced. Actually by allowing them to go to the college, we do not solve any problem because they do not become more employable after they have taken a B.A. or B.Sc. degree. In fact, they become less employable. At the age of 17 or 18 before they have taken a degree, they can undertake various kinds of jobs. If they have taken degree, either a first degree or

second degree, their expectations are expanded beyond what the country can afford and then sometimes they become almost unemployable. Mvfriend, Shri Krishna Chandra, hon. said that the industrialists are not willing to take matriculates because they think that they will create disaffection among the other labour. If that is true of matriculates, what will be the position if they all go after having taken the first and have to take the kind of jobs which they are doing today without taking a degree? One thing country must face. As there is universal literacy, every kind of work will have to be done by literate people. Today there is a kind of feeling in the minds of many that because some person is literate, he should therefore not take certain kinds of jobs. This feeling is standing in the way of solving this problem. But I feel, I said a as moment ago, that the answer is to have a far larger proportion αť adolescents to go into trade schools, into junior technical schools, and I hope that it may be possible to expand these schools on a sufficiently large scale.

My friend, Shri Akbar Ali Khan, referred to the question of salary guarantee. We have given a guarantee for five years. That should enough. After all, within five years there will be various kinds of measures. There are these Finance Commissions which meet every five years and which make allocations between the Centre and the States after taking into consideration the whole financial picture. We agreed to pay for five years so that the Finance Commission would come in the meantime and make necessary allocations. But I regret to say certain State Governments and certain private organisations have been rather timid in the matter. They have not accepted our offer and that is why in some private institutions the conditions are even today not fully satisfactory.

My friend finally referred to the need of an Indian Institute of Technology for Andhra Pradesh. I hope a day will come when there will be such Institutes in every State, But obviously it will take some It took us many many years before we had the first Institute at Kharagpur. Between Kharagpur and Bombay there were eight years. In 1950, the Kharagpur Institute was established: the Bombay Institute established in 1958. After that we had Madras and Kanpur. It was in order. The Bombay Institute came into existence in 1958. In 1963, we are having the fifth Institute. We have already agreed to develop the Warangal Institute with the assistance the United Nations Fund, and maybe after another five years or so, I cannot give any time limit for it, but the intention is that gradually these Institutes should develop. As there is requirement for technical personnel of high quality throughout the country. the number of higher institutes will increase. But I would only submit to hon. Members that we should not take a State or provincial approach in this matter. In the case of an all-India Institute, the approach must bel all-India one. They are all-India Institutes in the true sense of the term and every Institute is open to students from every part of the country. The competitive examination is held in centres throughout the country.

I am verv grateful to my hon. friend, Shri Ram Sahai, who answered some of the points and very clearly stated some of the programmes of this Ministry. He did not really raise any objection or criticism so that I have no point to answer him. But I accept his suggestion that we should try to utilise these limited resources to the best possible extent and expand our junior technical schools on a larger scale. He suggested that the limit for scholarship should be lowered to 55 per cent. Even at 60 per cent, the number of applicants is so great that we cannot cope with them. If we lower it, the difficulty will be far greater.

My hon, friend, Shri Krishna Chandra, referred to he need for greater dissemination of knowledge about technical institutions. Sir I am glad to tell him that a new book has come out in January 1963. This is on Technical Education in India again by Mr. Chandrakant. Very recently, about a month ago, the Eastern Regional Committee of our All-India Council Technical Education have brought out another publication which gives not only a very full account of all institutions in the eastern region of India but also a summary account of institutions throughout the country. shall certainly keep his advice in mind that these publications have to brought up-to-date from time to time.

He asked whether the second year admissions will continue at Kharagpur and Bombay. This is a temporary measure. Ultimately, all the institutions will have five-year integrated courses, and there will be admissions only in the first year. But these Institutes have a certain amount of autonomy and they can decide their own course of development and rate of progress.

My hon, friend, Shri Ghani, referred to the need of providing some facilities to diploma-holders We are trying to do that, and recently a postgraduate diploma has been instituted, a diploma after the diploma at the national level. We are also trying to see that the diploma-holders get facilities for admission to degree institutions. Some universities have agreed in principle and I hope that this will become more general.

Finally, he referred to the question of foreign exchange. We have taken that up as I said before. We require about Rs. 2 crores every year for meeting the requirements of all the technical institutions in the country and I have every hope that before long this amount will be guaranteed so that there will be no difficulty in providing the equipment necessary for these institutions.

[Shri Humayun Kabir.]

Finally, I agree with him and other hon. Members who said that we must never give up the idea of expansion. I said earlier that our facilities should always be a little in advance of what the country requires at any one moment, but we should not go too far ahead because that would create problems again.

In conclusion, I once again thank the House for the very generous support that all sections of the House have given to this measure.

SHRI AKBAR ALI KHAN: What about the emergency measure?

SHRI HUMAYUN KABIR: Regarding the emergency measure, my hon. friend was mistaken. We have not reduced the duration of the course. In spite of great pressure, we refused to reduce the course. All that we did was that in the case of those who were in the two final years, we cut out their vacations and in this way we their advanced the completion Οť training by three or four months. If ten per cent. of the students did not attend, I am very sorry but they will have to suffer for it. The 90 per cent. cannot suffer because of the lapse of 10 per cent.

SHRI AKBAR ALI KHAN: Ten per cent. attended?

THE VICE-CHAIRMAN (SHRI M. GOVINDA REDDY): The question is:

"That the Bill be passed."

The motion was adopted.

THE DRUGS AND MAGIC REMEDIES (OBJECTIONABLE ADVERTISEMENTS) AMENDMENT BILL, 1963

THE DEPUTY MINISTER IN THE MINISTRY OF HEALTH (Dr. D. S. Raju): Mr. Vice-Chairman, I move:

"That the Bill to amend the Drugs and Magic Remedies (Objectionable Advertisements) Act, 1954, be taken into consideration."

Sir, this is actually an amendment to the Act of 1954, which has been in force from the 1st of April, 1955, So, actually this Act has been in force and implemented for the last few years since 1955. All over the country, this Act has been implemented and a few people, who have contravened the provisions of the Act, have been prosecuted and fines have been recovered from them. For example, in the State of Delhi itself, about 22 cases have been prosecuted and a fine of Rs. 16,000 has been collected. I think that in the year 1959, the Hamdard Dawakhana and a few others filed a writ petition saying that this Act of 1955 contravened the constitutionality . . .

شری عبدالغنی (پنجاب) : کورم نهیں هے -

†[श्री श्रब्दुल गनी (पंजाब) कोरम नहीं है।]

THE VICE-CHAIRMAN (SHRI M. GOVINDA REDDY): (After a count) There is quorum, Mr. Ghani.

SHRI ABDUL GHANI: Thank you.

Dr. D. S. RAJU: In the year 1959, the Hamdard Dawakhana and a few others filed a writ petition saying that this Act contravened the provisions of the Constitution, that is, articles 19(1) (a) and 19(1)(f) and (g). The Supreme Court went into this question after discussing this question, they held that the general provisions this Act were valid. But they came down very heavily upon two sections, section 3(d) and section 8. They said that these two sections were invalid and that they should be deleted. view of the Supreme Court's decision, this amendment has been brought forward.

^{†[]}Hindi transliteration.