



भारतीय प्रौद्योगिकी संस्थान खड़गपुर
खड़गपुर : 721 302, भारत

INDIAN INSTITUTE OF TECHNOLOGY KHARAGPUR
KHARAGPUR - 721 302, INDIA

No. IIT/Acad/Ministry/02/2019

Dated: November 11, 2019

To
P.J. Soundararajan
Under Secretary (IITs)
Government of India
Ministry of Human Resource Development
Department of Higher Education
Technical Section - I
428-C, Shastri Bhawan
New Delhi-110 011

Subject: Information related to Lok Sabha Starred Diary No. 9 on 18.11.2019.

**Ref.: 1. Email dated. 08.11.2019 from Shri Arun Kumar Karn, Assistant Section Officer
2. Office Memo F.No.10-16/2017-Stat**

Sir,

With reference to the above, the point wise information is provided below:

- a. The percentage of women and students from backward castes enrolled across various fields of study, including but not limited to Science, Technology, Engineering and Mathematics (STEM) at the undergraduate and post graduate Levels.

Admission Data:	Postgraduate courses 2019-20				Undergraduate courses 2019-20			
	% of Women	% of SCs	% of STs	% of OBCs	% of Women	% of SCs	% of STs	% of OBCs
	20.14	12.54	5.40	28.50	18.17	15.09	7.83	27.20

- b. The percentage of backward caste students and women students in the top 5 universities as per National Institute Ranking Framework.
: Same as above in 'a.' with respect to IIT Kharagpur.
- c. The dropout rates among backward caste and women students at the level of undergraduate and post graduate levels; and

	Postgraduate Courses 2019-20				Undergraduate Courses 2019-20			
	Women	SC	ST	OBC	Women	SC	ST	OBC
Total Admitted	265	165	71	375	318	264	137	476
Dropouts	7	9	2	8	0	1	1	3

- d. If the academic performance of women and students from backward castes is at par with other students?

We do not maintain this data.

With regards,

Yours sincerely,

(Prof. B N Singh)
Registrar



भारतीय प्रौद्योगिकी संस्थान खड़गपुर
खड़गपुर : 721 302, भारत

INDIAN INSTITUTE OF TECHNOLOGY KHARAGPUR
KHARAGPUR - 721 302, INDIA

No. IIT/KGP/RGR/R-1/2019/113

Date: 29.07.2019

To:

Shri Kundan Nath
Under Secretary (IITs)
Government of India
Ministry of Human Resource Development
Department of Higher Education
428-C, Shastri Bhawan
New Delhi-110 011

**Sub.: LOK SABHA UNSTARRED QUESTION No. 5647 regarding Patent Rights
Granted to Academic / R&D Institutions.**

Dear Sir:

This has reference to your email dated 26.07.2019 on the captioned subject. As desired the requisite information is given below in respect of Indian Institute of Technology Kharagpur.

Question (a) The amount of patent rights granted to academic / R&D Institutions including Council of Scientific and Industrial Research (CSIR), Indian Institutes of Technology(IITs), Indian Institute of Science(IISCs), Indian Institutes of Information Technology (IIITs) **in the country during the last five years;**

Institute's
Reply:

Patents rights granted during last 5 years	
2014	5
2015	0
2016	8
2017	8
2018	11
Total	32

Question (b) New initiatives being taken by the Government to promote research works in the country in this modern age of stiff competition and Intellectual Property Right regime;

- Institute's
Reply:
- IIT Kharagpur is carrying-out research in the cutting age areas related to all branches of engineering and sciences, humanities & social sciences, law, medical science and management.
 - IIT Kharagpur is also having law school that deals with the teaching and research related to IPRs.
 - IIT Kharagpur is also conducting short-term courses for the professionals in the domain of IPRs.

- Question (c) The mechanism in place to prevent repetition and wasteful research works in the country;
Institute's Reply: **Policy guidelines of IIT Kharagpur is already in place to promote high quality research in different domains. However, in many situations there are some commonalities in the different disciplines are noticed and it is well observed while going through deeper insight that there is marked difference in approaches and treatments in the research methodology.**
- Question (d) Whether any help in this regard has been sought from the IITs and other institutions and if so, the details thereof, and
Institute's Reply: **Not Applicable**
- Question (e) Any funds have been earmarked / proposed to be earmarked by the government to improve or to make the new technology error free, if so, the details thereof?
Institute's Reply: **IIT Kharagpur is working on different projects that lead to development of technologies, products and best practices. It is being carried out through sponsored projects and industrial consultancies. Some of the products are patented and copyrighted, whereas in so many cases, findings are published in the reputed journals.**

Please acknowledge receipt of this letter.

Thanking you,

Yours sincerely,



(Prof. B N Singh)
Registrar



भारतीय प्रौद्योगिकी संस्थान खड़गपुर
खड़गपुर : 721 302, भारत

INDIAN INSTITUTE OF TECHNOLOGY KHARAGPUR
KHARAGPUR - 721 302, INDIA

No. IIT/KGP/RGR/R-1/2019/207
Date: 28.11.2019

To:
Mr. P.J. Soundararajan
Under Secretary (IITs)
Government of India
Ministry of Human Resource Development
Department of Higher Education
Technical Section -I
428-C, Shastri Bhawan
New Delhi-110 011

Sub: Lok Sabha Unstarred Question No. 2146 for answer on 02.12.2019 regarding "Suicide Rate in Higher Education"

Dear Sir:

This has reference to your email dated 28.11.2019 on the captioned subject. As desired, the requisite information with regard to IIT Kharagpur is given below:

Question (a) Whether the Government is aware of the increasing suicide rates in the higher education institutes in the country;

Institute's Reply: **In IIT Kharagpur, sustained measures for welfare of students have been taken in last two years. This has reduced the number of suicides to just one (in the period November 2017 to November 2019).**

Question (b) Whether the Government has done any studies / research on discrimination / harassment of students based on caste or religion in the higher education institutions such as IITs;

Institute's Reply: **In IIT Kharagpur, there is no reported case of discrimination/harassment of students based on caste or religion. The Dean of Students' Affairs, the Council of Dean of Students' Affairs monitor all issues related to academic difficulties, physical/mental health with the help of Institute Wellness Group/Student Welfare Group (consisting of more than a 100 students).**

Question (c) If so, the details thereof;

Institute's Reply: **The Dean of Students' Affairs, the Council of Dean of Students' Affairs monitor all issues related to academic difficulties, physical/mental health, harassment, disciplinary matters etc. with the help of Institute Wellness Group/Student Welfare Group (consisting of more than a 100 students) and Wardens and Assistant wardens of all hostels.**

Question (d) The measures that are being taken by the government to prevent harassment of students in higher education institutions?

Institute's Reply: **In IIT Kharagpur, there is institutional mechanism to prevent and addressing any case of harassment. There are**

- (i) Institute level anti-raggaing committee
- (ii) Institute level anti-raggaing squad
- (iii) Hostel level anti-raggaing squad
- (iv) Standing Institute Disciplinary Committee
- (v) Hostel Disciplinary Committee
- (vi) Internal Complaints Committee(ICC)
- (vii) Besides the students and parents give an undertaking at the time of admission to abide by the rules of the institution.
- (viii) At the time of admission there is an induction program of all the students and they are briefed about various aspects of behaviour to fellow students.
- (ix) Dissemination of information through poster, pamphlets etc. within the campus.

Year wise data of suicide (last five years)

Year	2015	2016	2017	2018	2019	Total
No.	Nil	Nil	04	01	Nil(till date)	05

Please acknowledge receipt of this letter.

Thanking you,

Yours sincerely


(Prof. B N Singh)

Registrar



भारतीय प्रौद्योगिकी संस्थान खड़गपुर
खड़गपुर : 721 302, भारत

INDIAN INSTITUTE OF TECHNOLOGY KHARAGPUR
KHARAGPUR - 721 302, INDIA

No. IIT/KGP/RGR/R-1/2019/193

Date: 27.11.2019

To:
Mr. P.J. Soundararajan
Under Secretary (IITs)
Government of India
Ministry of Human Resource Development
Department of Higher Education
Technical Section -I
428-C, Shastri Bhawan
New Delhi-110 011

Sub: Lok Sabha Unstarred Question No. 2235 regarding death of students in IIT & IIM for answer on 02.12.2019

Dear Sir:

This has reference to your email dated 26.11.2019 on the captioned subject. As desired, the revised requisite information with regard to IIT Kharagpur is given below:

Question (a) Whether the Government has conducted any enquiry regarding the death of students in IIT campus and Hostels under suspicious circumstances, if so, the details thereof;

Institute's Reply: **Formal enquiries are normally conducted for such cases. The Institute pays serious attention to check the wellbeing of the students for such cases. A number of initiatives have been taken by the Institute to check the death of students.**

Question (b) The institution-wise details of death regarding the students in IIT and IIM during the last five years;

Institute's Reply: **During the last five years, the no. of death cases at IIT Kharagpur (due to suspected suicide): 06**

Question (c) Whether the Government is aware that the deaths were reported as suicides;

Institute's Reply: **Yes, in reply to RTI or to the Ministry directly.**

Question (d) If so, whether the Government has taken any action for detailed inquiry;

Institute's Reply: **Normally enquiries including judicial inquiry, if needed, are set up to probe the case. Necessary steps are taken based on the outcome.**

Question (e) Whether the Government received representation from Member of Parliament requesting to conduct enquiry regarding death of Fathima Latheef in IIT Chennai Hostel;

Institute's Reply: **Not Applicable to IIT Kharagpur**

Question (f) if so, the action taken thereon;

Institute's Reply: **Not Applicable**

Question (g) Whether the Government proposes to establish an effective system for inquiry and action on the complaints regarding mental harassment?

Institute's Reply: **Not Applicable to IIT Kharagpur**

Please acknowledge receipt of this letter.

Thanking you,

Yours sincerely

(Prof. B N Singh)
Registrar



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खड़गपुर : 721 302, भारत

INDIAN INSTITUTE OF TECHNOLOGY KHARAGPUR
KHARAGPUR - 721 302, INDIA

No. IIT/KGP/RGR/R-1/2019/107

Date: 19.07.2019

To:

Shri Kundan Nath
Under Secretary (IITs)
Government of India
Ministry of Human Resource Development
Department of Higher Education
428-C, Shastri Bhawan
New Delhi-110 011

Sub.: Lok Sabha Unstarred Q.No.4642 for 22.07.2019 regarding Students Death in Central Institutions.

Dear Sir:

This has reference to your email dated 18.07.2019 on the captioned subject. As desired the requisite information is given below in respect of Indian Institute of Technology Kharagpur.

- Question (a) Whether the Government has taken note of incidents of students arrest / suicide and deaths in the Central Institutions of Higher Education as well as in professional colleges across the country particularly in Jawaharlal Nehru University in New Delhi and Aligarh Muslim University;
- Institute's Reply: **IIT Kharagpur has taken several measures to look into the different aspects of students' career through CDC (Career Development Centre), SWG (Student Welfare Group), CC (Counselling Centre), Empowering Female Students, Orientation Programme, Gate-keepers Training etc.**
- Question (b) If so, the number of such cases reported during the last three years including current year, year-wise/Institution-wise/death/suicide separately;
- Institute's Reply: **Unfortunately due to different non-academic reasons (family pressure, health reasons, societal causes) are resulted a few of suicidal events in the Institute. In the last three years (from 2015 to 2019) 5 death cases were taken place in which 2-3 suicidal cases was there due to the family pressure, health reasons, societal causes etc.**
- Question (c) The steps taken by the Government to curb the serious situations in such educational institutions?
- Institute's Reply: **Institute has taken major steps and safeguards to avoid the occurrence of such events in our campus. The details of the steps are given below:**
- **A well equipped counseling center to address the mental health issues of students.**

- **Establishment of a formal counseling center:** IIT Kharagpur was early in establishing a formal counseling center at its campus. Today, the counseling center provides individual consultation, crisis intervention, group counseling, psychiatrist service, outreach, and gate-keeper's training among others.
- **Establishing Rekhi Centre for Excellence for the Science of Happiness:** The centre has been set up to promote the science and practice of positivity for fostering meaningful life, happiness, well-being and holistic self-development.
- **Holding Induction Program for Students:** Student entrants to IIT Kharagpur will go through a six-day induction program. Similar inductions programs are also planned for the existing students as well.
- **Holding Orientation Program for students:** In IIT Kharagpur, we have a well managed Orientation program to groom the students by handling the academic pressure, career related difficulties and mechanism to inspire them for observing the stress and loads of different types.
- **Holding Workshops/Seminars on Happiness/Wellness:** IIT Kharagpur has held quite a number of workshops and seminars to promote Happiness and Wellness among the students where leading experts in the area also participated.
- **CDC (Career Development Centre):** In our Institute, we have CDC yearlong involvement of this cell to promote the different types of career development for all of high learning (TSG activities, Self Help Group, Empowering the man, Yoga etc.) are very active in providing different types of support to the students to come out of stress and burdens come through several sources.

Please acknowledge receipt of this letter.

Thanking you,

Yours sincerely,



(Prof. B N Singh)
Registrar



भारतीय प्रौद्योगिकी संस्थान खड़गपुर
खड़गपुर : 721 302, भारत

INDIAN INSTITUTE OF TECHNOLOGY KHARAGPUR
KHARAGPUR - 721 302, INDIA

No. IIT/R/MHRD/2019/
Dated: November 06, 2019

To
Shri P. J. Soundararajan
Under Secretary (IITs)
Department of Higher Education
Ministry of Human Resource Development
Shastri Bhawan
New Delhi - 110 011

Subject : OBC Welfare Committee Matter
Ref. : Your email dated November 04, 2019.

Sir,

Kindly refer to your email on the above subject. As per MHRD Letter No. F. No. 16-8/2000-TS.I dated 09.06.2008 reservation is applicable for SC/ST/OBC Category in the subjects of Humanities/Social Sciences/Management and Law for all faculty positions i.e. Assistant Professors/ Associate Professors and Professors. Reservation is applicable only for entry level post(s) of Assistant Professor in Departments/Schools/Centres dealing with Science and Technology subjects.

In view of that category wise recruitment in the faculty positions made since June' 2008 to October' 2019 at IIT Kharagpur is as under:


Year	Total	OBC	SC	ST	Remarks
2008	8	0	0	0	
2009	23	0	0	0	
2010	20	2	0	0	
2011	9	0	0	0	
2012	10	0	0	0	
2013	47	2	0	0	
2014	25	1	0	0	
2015	31	3	0	0	
2016	41	4	0	0	
2017	29	0	0	0	
2018	80	1	2	0	
2019	59	8	1	0	

It is pertinent to mention that as per Ministry of HRD norms the dynamic sanctioned strength of faculty is based on the ratio of Student : Faculty i.e. 10:1. Thus the dynamic sanctioned strength of faculty is 1203 for 12038 students upto October' 2019.

Sanctioned Strength	In position (October' 2019)	Vacant position				Total
		UR	SC	ST	OBC	
1203	739	359	32	20	53	464

Kindly acknowledge receipt of the letter.
Thanking you,

Yours sincerely,


(Prof. B N Singh)
कुलसचिव/ Registrar



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खड़गपुर : 721 302, भारत

INDIAN INSTITUTE OF TECHNOLOGY KHARAGPUR
KHARAGPUR - 721 302, INDIA

No. IIT/KGP/RGR/R-1/2019/193
Date: 28.11.2019

To:
Mr. P.J. Soundararajan
Under Secretary (IITs)
Government of India
Ministry of Human Resource Development
Department of Higher Education
Technical Section -I
428-C, Shastri Bhawan
New Delhi-110 011

Sub: Lok Sabha Unstarred Question No. 2235 regarding death of students in IIT & IIM for answer on 02.12.2019

Dear Sir:

This has reference to your email dated 26.11.2019 on the captioned subject. As desired, the **revised** requisite information with regard to IIT Kharagpur is given below:

Question (a) Whether the Government has conducted any enquiry regarding the death of students in IIT campus and Hostels under suspicious circumstances, if so, the details thereof;

Institute's Reply: **Formal enquiries are normally conducted for such cases. The Institute pays serious attention to check the wellbeing of the students for such cases. A number of initiatives have been taken by the Institute to check the death of students.**

Question (b) The institution-wise details of death regarding the students in IIT and IIM during the last five years;

Institute's Reply: **During the last five years, the no. of death cases at IIT Kharagpur (due to suspected suicide): 05. Year wise data is given below:**

Year	2015	2016	2017	2018	2019	Total
No.	Nil	Nil	04	01	Nil(till date)	05

Question (c) Whether the Government is aware that the deaths were reported as suicides;

Institute's Reply: **Yes, in reply to RTI or to the Ministry directly.**

Question (d) If so, whether the Government has taken any action for detailed inquiry;

Institute's Reply: **Normally enquiries including judicial inquiry, if needed, are set up to probe the case. Necessary steps are taken based on the outcome.**

Question (e) Whether the Government received representation from Member of Parliament requesting to conduct enquiry regarding death of Fathima Latheef in IIT Chennai Hostel;

Institute's Reply: **Not Applicable to IIT Kharagpur**

Question (f) if so, the action taken thereon;

Institute's Reply: **Not Applicable**

Question (g) Whether the Government proposes to establish an effective system for inquiry and action on the complaints regarding mental harassment?

Institute's Reply: **Not Applicable to IIT Kharagpur**

Please acknowledge receipt of this letter.

Thanking you,

Yours sincerely

(Prof. B N Singh)

Registrar

Zimbra

reg@hijli.iitkgp.ac.in

Re: URGENT-Admitted Starred Question for Rajya Sabha regarding "Setting up of Technology Development Centre in West Bengal" for answer on 3.2.2020.

From : reg@hijli.iitkgp.ernet.in <reg@hijli.iitkgp.ac.in> Wed, Jan 29, 2020 12:42 PM

Subject : Re: URGENT-Admitted Starred Question for Rajya Sabha regarding "Setting up of Technology Development Centre in West Bengal" for answer on 3.2.2020.

To : akkarn <akkarn.edu@nic.in>

Cc : Registrar <registrar@hijli.iitkgp.ernet.in>, prashant ag <prashant.ag@gov.in>, pj rajan <pj.rajan@nic.in>, L RAGHAVENDRAN, Section Officer (TS-1) Dept. of Education <lraghavendran.edu@nic.in>

Reply To : reg@hijli.iitkgp.ernet.in

No.: IIT/KGP/RGR/R-1/2020/43

Date: 29.01.2020

To:
Mr. P J Soundarajan
Under Secretary (IITs)
Government of India
Ministry of Human Resource Development
Technical Section-I
428-C, Shanstri Bhawan
New Delhi- 110 011

ub.: Sub:Admitted Starred Question for Rajya Sabha regarding "Setting up of Technology Development Centre in West Bengal" for answer on 3.2.2020.

Dear Sir:

This has reference to email dated 29.01.2020 on the captioned subject.

As desired the requisite information with regard to IIT Kharagpur is given below:

Question(a)	Whether Govt. is aware that West Bengal has a huge reservoir of gifted science students
Institute's Reply	Not related to IIT Kharagpur.
Question(b)	Whether government has any plan to set up a Technology Development Centre in West Bengal;

**Institute's
Reply**

1. IIT Kharagpur has long established Rural Development Centre (RDC) at Kharagpur. This centre was established in 1975 as a first coordinating unit and later became a full-fledged centre in 1980. The main objective of the centre was for technology identification, technology development, Transfer and evaluation through the Institute. Over the years, the centre has achieved its objectives. The Institute has also established a centre for Rural Technology Action Group in 2008, and Design Innovation Centre in 2016 as independent units to cater the needs of the people of the country in particular West Bengal. Several technologies were developed and transferred to the needy people to improve their livelihoods in North-East states, West Bengal, etc.
2. IIT Kharagpur has also established a Research Park in Kolkata. The Park was inaugurated by the Hon'ble Minister of Human Resource Development Shri Ramesh Pokhriyal 'Nishank' on 27.05.2019. In the research park, several activities including Technology Development centre in collaborations with Industry, academia and research organisations, etc are planned to set up to cater the needs of research , technology development, start-ups, innovations, incubations etc. The primary focus of activity areas of IIT Kharagpur Research Park ("the Park") includes:
 - Collaborative R & D
 - Center of Excellence
 - National Mission Projects and Laboratories
 - Incubation Hub
 - Research cum Academic Hub
 - Technology development and transfer
3. Through Science and Technology Entrepreneurs' Park (STEP; web-www.step-iit.org; www.ficiitkgp.org; www.tociciitkgp.org) at IIT Kharagpur, we are supporting many start-up companies by providing technical support, mentorship, seed loan grant, etc. STEP IIT Kharagpur is among the oldest and largest incubation centres in India, and is now being networked with other incubation hubs in Asia through the initiatives from Asian federation of Biotechnology (www.afob-india.org; www.afob.org). STEP is providing fabrication and testing infrastructure to the current startups having nextgen product target in areas of graphene doped devices/sensors/drones/robots, biocompatible composites and other technical textiles products, appliances for organic vertical farming in hydroponics/aeroponics. In collaboration, STEP provides guidelines for Industry-4 concepts in product development by startups. Altogether, 194 start-up firms have been provided all the facilities to design, develop, and market the product and services by these companies. Many advanced facilities such as bio capability test facility, fabrication facilities, seed load grant, structured manner support to rural entrepreneurs, and self-help group for women have been provided by STEP and

	successfully launched companies to carry out different types of businesses.
Question(c)	If so, the details thereof and if not, the reasons therefor?
Institute's Reply	The details are provided in the Institute 's reply of Question (b)

Kindly acknowledge receipt of this letter.

Thanking you,
Yours sincerely,

(Prof. B N Singh)

Registrar

----- On Jan 29, 2020, at 9:13 AM, akkarn <akkarn.edu@nic.in> wrote:

Sir,

I am directed to state that a parliamentary question regarding "Setting up of Technology Development Centre in West Bengal" has been admitted in Rajya Sabha as STARRED Question for answer on 03.02.2020. The text of the question reads as under:-

- (a) Whether Govt. is aware that West Bengal has a huge reservoir of gifted science students;
- (b) Whether government has any plan to set up a Technology Development Centre in West Bengal; and
- (c) If so, the details thereof and if not, the reasons therefor?

2. It is requested that the requisite information with regard to above question may kindly be sent to this Ministry by return mail by 11:00 a.m. positively.

This may please be kindly treated as MOST URGENT.

Regards,

Arun Kumar Karn
Assistant Section Officer
Technical Section-1
Department of Higher Education
Ministry of Human Resource Development



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Prof. B. N. Singh, PhD

HAL Chair Professor and Former Head, Department of Aerospace Engineering &

Registrar and Dean(HR) Indian Institute of Technology Kharagpur

Kharagpur-721302, India

E-mail: registrar@iitkgp.ac.in, bnsingh@aero.iitkgp.ac.in, deanhr@adm.iitkgp.ac.in,

alternate E-mail:bnsingh.iitkgp@gmail.com

Tel:+91-3222-282022(O)

Fax:+91-3222-282020

My publications and citations at

<http://scholar.google.co.in/citations?hl=en&user=wwjYPDMAAAAJ&authuser=1>

My institute website at

<http://www.iitkgp.ac.in/department/AE/faculty/ae-bnsingh>

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भारतीय प्रौद्योगिकी संस्थान खड़गपुर
खड़गपुर : 721 302, भारत

INDIAN INSTITUTE OF TECHNOLOGY KHARAGPUR
KHARAGPUR - 721 302, INDIA

No.IIT/KGP/RGR/R-1/2020/27

Date: 27.01.2020

To:
Mr. P.J. Soundararajan
Under Secretary (IITs)
Government of India
Ministry of Human Resource Development
Department of Higher Education
Technical Section -I
428-C, Shastri Bhawan
New Delhi-110 011

Subject: Rajya Sabha Provisionally admitted Question No.245 for answer on 04.02.2019 regarding "Patent conversion into Commercial products" – IIT Kharagpur

Dear Sir:

This has reference the email dated 23.01.2020 on the captioned subject.
As desired, the requisite information with regard to IIT Kharagpur is given below:

Question (a) The number of patents that have been registered by IITs during the past three years: (information may be given for the years, 2017, 2018 and 2019);

Institute's Reply: The total numbers of patents filed in the last 3 financial years (2016-17, 2017-18, 2018-19) are 132.

Question (b) The number of those patents that have become commercial products;

Institute's Reply: The total numbers of patents that have been commercialized in the last 3 financial years are 5.

Question (c) The reasons for very low rate of conversion of patents to commercial production?

Institute's Reply: The reason for very low rate of conversion from patents to commercial production may be stated as follows:

- i) The IITs are regularly funded by many industries for contract / sponsored research. The know-how created from most of these projects is reduced to practice by the sponsoring industry, and are treated as trade secrets. Quite often such know-how is not patented as the patenting time surpasses the shelf life of the technology, and in our country infringements are difficult to detect and protect against.

- ii) The time between submission of a patenting application to the granting of the patent is more than 5 years. By this time, most technologies become obsolete and do not remain suitable for transfer. IITs do however use the technologies to get sponsored research projects which use these as background know-how and develop company specific technologies for the sponsors.
- iii) Over the years the IITs have developed their own cells for filing of patents, but they, like most universities in the world do not have the expertise and manpower for marketing technologies that are developed suo moto (that is, outside the ambit of sponsored research projects). The AGNII initiative is attempting to bridge this gap, and its effect will become apparent after some years.
- iv) Translation of university research into commercial products requires translation partners. The translation is typically not regarded as a role of the university, because the translation activity has low research content, the product requires a dedicated customer support team, and marketing the product requires a different skill than what is prevalent in professors and students. In sponsored research, the sponsoring company takes the responsibility of the translation. Start-up companies can also be good translation partners. The start-up ecosystem in India is still at its infancy and it is anticipated that its growth will catalyze the translation of university technology to commercial products.

Kindly acknowledge receipt of this letter.

Thanking you,

Yours sincerely,



(Prof. B N Singh)
Registrar



भारतीय प्रौद्योगिकी संस्थान खड़गपुर
खड़गपुर : 721 302, भारत

INDIAN INSTITUTE OF TECHNOLOGY KHARAGPUR
KHARAGPUR - 721 302, INDIA

No. IIT/KGP/RGR/R-1/2019/194

Date: 27.11.2019

To:
Mr. P.J. Soundararajan
Under Secretary (IITs)
Government of India
Ministry of Human Resource Development
Department of Higher Education
Technical Section -I
428-C, Shastri Bhawan
New Delhi-110 011

**Sub: Rajya Sabha Question Diary No. S1973 to be replied on 05.12.2019
regarding Establishment of medical institute by IIT Kharagpur**

Dear Sir:

This has reference to your email dated 26.11.2019 on the captioned subject. As desired, the revised requisite information with regard to IIT Kharagpur is given below:

Question (a) Whether IIT Kharagpur in West Bengal is going to start one excellent medical institute along with the technological excellence;
Institute's Reply: **IIT Kharagpur is the first IIT in India to embark on establishing a Medical College and Super-speciality teaching Hospital within its campus. This is intended to be a Centre of Excellence in medical education, patient care and healthcare technology research & development.**

Question (b) If so, the special features of this institute;
Institute's Reply: **The hospital is known as "Dr. BC Roy Institute of Medical Sciences & Research".**

In Phase I, 400-bedded hospital is built over 400,000 sft area. 350 more beds will be added in Phase II in a new construction to be taken up soon. Total bed strength will eventually be 750 in time to come.

It is planned to provide healthcare to all through this hospital. It will have basic services such eg. Medicine, Surgery, Orthopaedics, Gynaecology & Obstetrics, Paediatrics, Eye, ENT etc.; it will also have all super-speciality services eg. Cardiac surgery & Catheterisation lab, Neurosurgery, Level III Trauma care centre, Dialysis, Burns Unit etc. It is also planned to add Radiotherapy services in Phase II.

The hospital will accept all patients covered under state/central health insurance policies. It will also have a portion dedicated to treatment of poor patients at subsidized rate. The super-speciality services will be provided at an affordable level. It is intended to have follows on Medico-Technological research. The research centre will have researchers from amongst technologists, biologists and doctors to foster development of cutting-edge innovative affordable healthcare technologies that both promote advancement of fundamental knowledge and usable for basic primary care in rural areas. The hospital is also expected to develop an outreach model whereby patents living in remote rural areas will receive digital and mobile healthcare.

Question (c)

By when this institute will start operating for medical education and treatment?

Institute's
Reply:

The hospital will be commissioned in phases.

First phase, with Out-patient and Diagnostic services is expected to start within next 2 months.

Second phase, with 110 beds will start in April-May 2020.

The final strength, with 400 beds, will become operational within next 18 months.

Under-graduate medical admission is expected to start in July-August 2021, once the essential formalities are completed.

Please acknowledge receipt of this letter.

Thanking you,

Yours sincerely

(Prof. B N Singh)
Registrar



भारतीय प्रौद्योगिकी संस्थान खड़गपुर
खड़गपुर : 721 302, भारत

INDIAN INSTITUTE OF TECHNOLOGY KHARAGPUR
KHARAGPUR - 721 302, INDIA

No. IIT/KGP/RGR/R-1/2019/103

Date: 15.07.2019

To:

Shri Kundan Nath
Under Secretary (IITs)
Government of India
Ministry of Human Resource Development
Department of Higher Education
428-C, Shastri Bhawan
New Delhi-110 011

Sub.: Raja Sabha provisionally admitted Question Dy. No. S4114 to be replied on 18.07.2019 regarding "mental health of higher education institutions"

Dear Sir:

This has reference to your email dated 10.07.2019 on the captioned subject. As desired the requisite information is given below in respect of Indian Institute of Technology Kharagpur.

- Question (a) The number of counselors of psychologists work in Higher Educational Institutions (HEI);
Institute's Reply: Total seven counsellors. (Five permanent and two outsourced)
- Question (b) The average number so counselors or psychologists per HEI
Institute's Reply: Not applicable
- Question (c) The steps being taken to improve mental health workforce in HEIs.
Institute's Reply: IIT Kharagpur started full-fledged Counseling Centre since 2009 and currently having seven (7) full time counsellors and two(2) consultant psychiatrists. IIT Kharagpur initiated following preventive programmes to mitigate mental health concerns among students.
1. **Counselling services are provided 24x7 both online and offline. The online services include 24x7 chat, audio and video counselling facility.**
 2. **Student bodies like Students Welfare Group (SWG) and Institute Wellness Group (IWG) are involved to identify students in need of immediate mental health intervention and referring them to the Counselling Centre.**
 3. **Regular Mental Health Awareness and outreach programmes like "Help-A-Friend" and Gatekeeper Training (GKT) for various stakeholders such as wardens, faculty advisors, residential hall supervisors and hall managers, security personnel, parents, students' council members and student volunteers.**
 4. **Regular Interactive workshops and invited eminent speakers in the area of mental health are organized for students.**

5. IIT Kharagpur has initiated a proactive process to screen mental health related issues among the absentees in examinations, presuming this absenteeism may be due to some underlying mental health issues. This eventually leads to timely mental health intervention.
6. Induction programme for freshers and guardians by counsellors and psychiatrist.
7. Institute also observes specific days pertinent to students mental health and general wellbeing such as world mental health day, international Suicide prevention day, substance awareness week etc.,
8. In order to connect with students promptly, the institute maintained an informative website along with social network like Facebook and YouTube.

Please acknowledge receipt of this letter.

Thanking you,

Yours sincerely,



(Prof. B N Singh)
Registrar



भारतीय प्रौद्योगिकी संस्थान खड़गपुर
खड़गपुर : 721 302, भारत

INDIAN INSTITUTE OF TECHNOLOGY KHARAGPUR
KHARAGPUR - 721 302, INDIA

No. IIT/KGP/RGR/R-1/2019/185
Date: 18.11.2019

To:
Mr. P.J. Soundararajan
Under Secretary (IITs)
Government of India
Ministry of Human Resource Development
Department of Higher Education
Technical Section -I
428-C, Shastri Bhawan
New Delhi-110 011

Sub: Rajya Sabha Unstarred Question No. 551 regarding Tenure tracking system in IITs asked by Prof. M.V. Rajeev Gowda for answer on 21.11.2019

Dear Sir:

This has reference to your email dated 16.11.2019 on the captioned subject.
As desired, the requisite information with regard to IIT Kharagpur is enclosed.
Please acknowledge receipt of this letter.

Thanking you,

Yours sincerely,

Registrar

Encl.: As stated above.



Rajya Sabha Unstarred Question No. 551 regarding Tenure tracking system in IITs asked by Prof. M.V. Rajeev Gowda for answer on 21.11.2019

Q. (a) Whether Government propose to introduce the tenure track system for hiring and promotion of Assistant Professors in Indian Institutes of Technology (IITs) across the country?

Reply : To be answered by MHRD

Q. (b) if so, the reasons there for;

Reply: NA

Q. (c) The details of seed funding that would be provided to these Assistant Professors for research purposes, institute-wise?

Reply:

Innovative Research Grant under the Institute Scheme for Innovative Research and Development (ISIRD) is provided to new faculty member up to a maximum of Rs. 25 lakh for equipment and infrastructure development and an additional grant of Rs. 3 lakh for consumables, contingency and travel expenses. Additionally, a number of Research Challenge grants are available.

A Cumulative Professional Development Allowance (CPDA) of Rs. 3 lakh for every block period of 3 years may be made available to every member of the faculty on reimbursable basis to meet the expenses for participating in both national and international conferences, paying the membership fee of various professional bodies and contingency expenses.

Q. (d) the details of the infrastructure of all the IITs, including electricity connection, internet connectivity, number of functional computers and number of fully functioning science labs with its capacity, institute-wise; and

Reply:

Details of Infrastructure

IIT Kharagpur was established by the government of India in 1951, the Indian Institute of Technology Kharagpur (IITKGP) is the oldest and the largest IIT in entire country with current student strength of approximately 12,800 who are engaged in various diversified academic programmes. The academic and research programmes are administered through 19 Academic

Departments, 14 Centres, 11 Schools and more than 25 Industries & Research Labs, Research Centres and Centers of Excellence. Presently IIT Kharagpur has about 722 faculty members and around 22,000 residents living on the campus.

The campus is spread over a land area of about 8.5 square Kilometres (2,100 Acres). The campus was developed as an integrated campus consisting of Academic, Research & Residential facilities in a close knit fabric.

The Current Infrastructure in campus may be classified into four following categories:

1. Academic & Research area (Builtup area of approx.. 3.50 lac sq.m.)
2. Residential area for Faculties and Staff (Builtup area of approx.. 3.30 lac sq.m.)
3. All faculty members are provided with spacious labs with electricity, functional computers with internet connectivity as far as practicable.
4. Residential area for Students also called the Halls of Residence (Builtup area of approx.. 3.70 lac sq.m.)
5. Common facilities like Guest House, Hospital, Sports Building, School, Service Buildings etc (Builtup area of approx.. 1.2 lac sq.m.).
6. Main campus is enclosed by a secured boundary wall of length about 9.5km; and, it is serviced by a network of internal roads measuring about 55km in total length.
7. Water is being sourced through a 400mm dia pipeline, being upgraded to 600mm dia to meet growing demand, from an anicut 12km away, on Kangsabati river. The water supply in some pockets of the campus is also supplemented by some in-campus bore wells.

Electricity Connection

1. At present IITKGP main campus is getting power supply from WBSEDCL at 33 KV voltage level with contract demand of 9000 KVA. The present 33 KV overhead single feeder of WBSEDCL is being converted to double Underground Cable feeder. This power is augmented with grid connected rooftop solar power of 1200 KWP. Also SECI has been requisitioned for another 2000 KWP solar power, which is under their tendering process. In addition to that IITKGP is also tendering for 1100 KWP cycle and car parking rooftop solar power.
2. There are five more electricity connections from utilities at 1) Research Park Kolkata, 2) Kolkata Extension centre, 3) Bhubaneswar Extension centre, 4) Anicut pump house, Kolkata & 5) Balarampur Pump house.

Internet Connectivity

Institute uses 10 Gbps Internet bandwidth from NKN. There is no other Internet connectivity for the Institute.

Institute is connected with NKN POP located at NIC Kolkata over two transmission links (10 Gbps from M/s Railtel and 1 Gbps from M/s BSNL).

All payments for the above two transmission links are made by NKN.

Number of functional computers in Science Labs and

More than 600 Computer Desktops and High End Servers are fully functional in Science Laboratories.

Number of fully functioning science labs with its capacity

More than 103 Academic & Research Laboratories are fully operational related to Science Departments, Centers and Schools with total students (undergraduate, post graduate and research students) capacity more than 2672.

Details of functional computers in Science Labs and Number of fully functioning science labs with its capacity are *annexed* herewith.

Q. (e) The rationale behind setting the upper age limit as 35 for an Assistant Professor?

Reply:

Faculty members in IIT Kharagpur are recruited with Ph.D. with 3 years of relevant teaching, research & industrial experience excluding the period while pursuing Ph.D. The Institute prefers to engage young academician preferably below 35 years.

Department of Mathematics

In Mathematics department we have three computer labs. equipped with Desktops, few are connected to high-ends servers. Two labs are for Research Scholars of capacity 25 students each; the other one for Undergraduates of capacity 55 students.

In these three labs about 100 desktops are there- we have three high-end IBM server in running condition including the computers purchased through sponsored projects, and one HP server, few printers and scanners

Department of Chemistry

1. 1st-year Laboratory 3 nos, with 45 students capacity each.
2. Organic Laboratory 1 No 50 students capacity
3. Inorganic Chemistry Laboratory 1 no 50 capacity
4. Physical and biochemistry laboratory 1 no 60 capacity.
5. Centralized Instrument laboratory 7 Nos, approximately 100 students
6. Research laboratory 35 nos 10-12 capacity each.

Department of Physics

1. PG Programme (M. Tech. in Functional Materials and Devices)
Functional Materials & Devices Lab (FMD Lab): 25
FIST Laboratory (M. Tech. & Ph. D. Students): 25
2. UG Programme (Integrated M. Sc. & Two-year M. Sc. Programmes)
Preparatory Lab. (for weak students of reserved category) 32
First Year Physics Laboratory(All B. Tech. and Integrated M. Sc. students): 850
Thermal Physics/ Electromagnetism & Optics-I Laboratory: 35
(for 2nd yr Int. M. Sc. students)
EM & Optics Lab-II/Modern Phys. Lab.: 80
(3rd & 4th yr Integrated M.Sc. & 1st & 2nd year of two-year M. Sc. students)
Computational Physics
(3rd Integrated M.Sc. & 1st year of two-year M. Sc students) 80
EM & Optics Lab-III/Electronics Lab.: 90
(3rd Integrated M.Sc. & 1st year of two-year M. Sc students)
Nuclear Physics lab: 90
(3rd & 4th yr Integrated M.Sc. & 1st & 2nd year of two-year M. Sc. students)
Condensed Matter Physics Lab.: 90
(4th yr Integrated M.Sc. & 2nd year of two-year M. Sc students)

3. Innovation laboratory for any student of Physics Department:	20
Total capacity for students in various Physics labs.	1417

Department of Geology & Geophysics

The Dept. of Geology & Geophysics has the following 'fully functioning' undergraduate laboratories, with their respective capacities:

1. Petrological Microscopy Laboratory (30)
2. Palaeontology Lab (30)
3. Museum and associated Lab (30)
4. Seismic Prospecting Lab (30)
5. Electrical and Electromagnetic Lab (30)
6. Gravity and Magnetic Methods Lab (30)
7. Remote Sensing Lab (30)
8. Geochemistry Lab (30)
9. Hydrogeology Lab (30)

Apart from these teaching laboratories, the department has a number of specialized research laboratories which cater to users on individual basis at any one time:

1. EPMA Lab
2. SEM Lab
3. Research Microscopy and Microthermometry Lab
4. Vertebrate Palaeontology Lab
5. Palaeo-oceanography and Palaeoclimate Lab
6. Stable Isotope Lab
7. LA-ICP-MS Lab
8. Seismic Observatory
9. High Pressure Experimental Petrology Lab
10. Advanced Petrological Microscopy Lab
11. Anisotropy of Magnetic Susceptibility and Fabric Analysis Lab
12. Hydrothermal Experimental Petrology Lab

School of Bioscience

Started in IIT Kharagpur in 2014 to cater the need of knowledge in biology to our engineering students. A sophisticated state-of-the-art laboratory in 'Chemical and Molecular Biology' has

been developed to accommodate ~50 students. This encompasses following interdisciplinary fields in biological research that include M.Sc curriculum laboratories and Research laboratories

A) M.Sc (in Chemical and Molecular Biology) curriculum laboratory courses:

- 1) Chemical biology laboratory
- 2) Cell biology laboratory
- 3) Recombinant technology laboratory

B) Research Laboratories:

- 1) NMR spectroscopy Laboratory;
- 2) Membrane protein Laboratory;
- 3) Neuroepigenetics Laboratory;
- 4) Immunology Laboratory;
- 5) Virology Laboratory;
- 6) Neurochemistry Laboratory;

School of Environmental Science and Engineering

Fully functional laboratory with all necessary equipment for analysis of Water and Wastewater with capacity of working 25 Research Scholars and 6 Faculty cubicals and a small Office space.

Aditya Choubey Centre for Re-water Research: It is under Env. Sci. School and no separate lab at present.

PK Sinha Centre for Bioenergy and Renewables:

Have 4 laboratories fully functional to undertake reserach on (a). Biohydrogen (b) Algal biofules (c) Bioelectrochemistry and (d) Bioethanol production and enzymatic fermentation with total student capacity of 15 and a small office space and meeting room. No faculty seating space is available.

Computer and Informatics Center

CIC has around 550 functional computers (desktop PCs and Servers) which are used for centralized computing facilities. Majority of the systems are installed at Student Labs.

----XXX----



भारतीय प्रौद्योगिकी संस्थान, खड़गपुर
खड़गपुर - ७२१ ३०२, भारत

INDIAN INSTITUTE OF TECHNOLOGY, KHARAGPUR
KHARAGPUR - 721 302, INDIA

No. IIT/MHRD/2019/
Dated: 03.07.2019

To
Sri Kundan Nath
Under Secretary to the GoI
Ministry of Human Resource Development
Department of Higher Education
Technical Section - I
428-C, Shastri Bhawan, New Delhi – 110 011
E-mail: knath.edu@nic.in

Subject: Lok Sabha Unstarred Question No. 2480 regarding "Teaching/Non - Teaching staff in IIT/NIT" asked by Hon'ble MP Shri A Raja and Shri Balak Nath.

Ref. : Your email dated 02.07.2019

Dear Sir,

Kindly refer to your email dated 02.07.2019 on the aforesaid subject. As desired the information in respect of IIT Kharagpur in the prescribed format is as under:

- This information pertains to MHRD.
- Kindly refer to the Annexure – I & II
- No
- For Faculty:** For Faculty positions as per MHRD norms, reservation in Science & Engineering departments is applicable only in the entry level post of Assistant professor. However, reservation in Humanities, Management and Law departments is applicable in all levels i.e. Assistant Professor/Associate Professor/Professor without compromising the qualification, experience and category of the candidates.

However, institute advertised Special Recruitment Drive for SC/ST/OBC/PWD for filling up the vacant positions under Reserved Category for faculties.

For Non-faculty: In addition to faculty position, Institute always strives to follow MHRD reservation norms for appointment to the other positions in the SC/ST/OBC category from time to time.

However, a good number of non-faculty positions have already been advertised including SC/ST/OBC Category.

- Being a policy matter it pertains to MHRD/GoI.
- Post based roster is maintained.

Kindly acknowledge receipt of the letter.

Thanking you,

Enclo : As stated

Yours sincerely,


कुलसचिव / Registrar

Faculty details of IITs-

ANNEXURE-I

Sl No.	Name of IIT	Total sanctioned post of faculty	Post earmarked for			Total post filled	Post filled (faculty in position)			Total vacancy	Vacancy			Whether post-based roster is implemented
			SC	ST	OBC		SC	ST	OBC		SC	ST	OBC	
1	IIT Kharagpur	1203	40	20	72	699	9	0	23	504	31	20	49	Yes

ANNEXURE-II

Non-Faculty details of IITs-

Sl No.	Name of IIT	Total sanctioned post of Non-faculty	Post earmarked for			Total post filled	Post filled by			Total vacancy (including promotional vacancy)	Vacancy			Whether post-based roster is implemented
			SC	ST	OBC		SC	ST	OBC		SC	ST	OBC	
1	IIT Kharagpur	1323	189	89	169	849	157	69	128	474	32	20	41	Yes

LM
3/2/19