



Appreciation Letters on Successful Commissioning of Indus-2



गोपनीय
राष्ट्रमंडल की सेवा
GOVERNMENT OF INDIA
DEPARTMENT OF ATOMIC ENERGY

सौ. अमित आकोदकर
Dr. Amit Kakodkar
मंत्री, बहुराष्ट्रीय और विद्युतीय सेवा
भूज्योगी और विद्युतीय
Chairman, Atomic Energy Commission &
Secretary, Department of Atomic Energy

No.DAE/ND/52/2005/SR

August 27, 2005

Dear Dr. Sahni,

Kindly accept my heartiest congratulations to you and the entire team that has worked on INDUS-II on the first successful transport of electrons around the ring.

2. It is indeed an important milestone and I wish more such professional successes for the CAT team in the years to come.

With kind regards,

Yours sincerely,

(Anil Kakodkar) 27-8-05

डा. आर. चिदाम्बरम्
राष्ट्रमंडल के भूज्योगी अधिकारी
एवं
ठी. ए. एसी. पार्सोन

Dr. R. Chidambaram
Principal Scientific Advisor to Govt. of India
&
DAE - Homi Bhabha Professor



GOVERNMENT OF INDIA
भूज्योगी अधिकारी और
भारतीय अणुशक्ति केन्द्र

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Ref. RC/HBC/PSA/2144 /05

September 6, 2005

Dear Dr. Sahni,

I have just now received your letter of August 30th informing me about the milestone reached by Indus-2 with the first trial injection of the beam into the Storage Ring. Please accept my heartiest congratulations and kindly convey them to your colleagues. I shall eagerly look forward to further developments in Indus-2.

With kind regards,

Yours sincerely,

(R. Chidambaram)

Dr. V.C. Sahni,
Director,
Centre for Advanced Technology,
Indore - 452 013

Dr. M.R. Srinivasan
Former Member - Planning Committee, Govt. of India
Member, Planning, Apparatus, Commission & Secretary
Department of Atomic Energy, Govt. of India
Bhabha Atomic Energy Commission

Bangalore

11 Oct 2005

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Dear Dr. Sahni,

I received your letter of September 7, 2005
a couple of days ago. It was addressed to another
Dr. H.L. Srinivasan (there are a number of us with identical
names), our letter reached me eventually. Please note
my correct address given in this letter, for any further
need.

I am very happy to learn that the 2.5 GeV
Synchrotron Radiation Source Indus-2 has been put to
work and a 450 MeV beam was circulated in the
Storage Ring on August 27, 2005. I would like to say
to you and all your colleagues my congratulations and
best wishes. I hope Indus-2 will fully realize the
scientific and technology objectives it was designed
for and will be a useful R&D facility for the DAE
and the country.

I send you, your colleagues and their family
my best wishes for Diwali and
Makar sankranti.

Dr. M.R. Srinivasan	11 Oct 2005
Former Member - Planning Committee, Govt. of India	
Member, Planning, Apparatus, Commission & Secretary	
Department of Atomic Energy, Govt. of India	
Bhabha Atomic Energy Commission	

Dr. V.C. Sahni
Director
Centre for Advanced Technology
Department of Atomic Energy
INDORE - 452 013 (MP)

Yours sincerely,
Dr. M.R. Srinivasan (after)
(Dr. M.R. SRINIVASAN)



GOVERNMENT OF INDIA
SCIENTIFIC ADVISORY COUNCIL
TO THE
PRIME MINISTER

MESSAGE

At the outset I congratulate you and your team of scientists to have successfully commissioned the Indus-2 accelerator recently. The excellence of technical capability of CAT as an institution has been demonstrated in the past during the design, development and commissioning of the indigenous Synchrotron namely Indus-1 during the late 90's. CAT has also been instrumental not only in designing and fabrication of variety of accelerators for medical and industrial applications but has also successfully designed and developed a variety of laser system for use in basic research and other areas. The visit to the Indus-2 facility during the meeting of the Scientific Advisory Council to the Prime Minister recently also brought out the role that CAT has been successfully playing in the area of manpower development to handle the various scientific and technological facets of such turnkey projects.

I, on behalf of the Chairman and Members of SAC-PM, place on record my appreciation for the scientific achievements of the Centre and my best wishes for the future.

V. S. Ramamurthy
(V. S. RAMAMURTHY)



Dr. P. S. GOEL

सचिव
भारत सरकार
महासागर भवन, ब्लॉक 12, सी.पी.ओ. कॉम्प्लेक्स,
लोदी रोड, नई दिल्ली-110 003
SECRETARY
GOVERNMENT OF INDIA
DEPARTMENT OF OCEAN DEVELOPMENT
MAHASAGAR BHAWAN BLOCK-12, C.P.O. COMPLEX,
LODHI ROAD, NEW DELHI-110 003

DDG/Secy/B/2005
September 6, 2005

Dear Dr. Sahni,

It was a pleasure being at the Centre for Advanced Technology, Indore and particularly with you on 28.8.05.

2. The visit to the Synchrotron Radiation Source, Indus-1 accelerator and seeing that the Indus-2 functioning first time was a thrilling experience engineering complexities and the issues involved in making the high energy particle to pass through within a few millimeters have a large number of cycles and to accelerate to GEV level, is to be seen to believe. Each and every member of the Centre need to be congratulated for this very distinguished and unique achievement. Also, the efforts and leadership provided by you in this kind of complex technology is laudable.

3. Being a very unique facility on this part of the earth, I am very excited about the potential for scientific investigations as many high energy experiments are waiting to happen for this development.

4. Unfortunately, we did not have sufficient time to see other activities of the Centre, particularly the activity related to high energy Lasers but I am sure with equally challenging developments are taking place in Lesser Technology also that would be yet another reason to visit the CAT again.

5. Once again congratulate each and every member of the team on my personal behalf.

With kind regards,

Yours sincerely,
B. A. Basu
(P.S. Goel)

S.K. Joshi

National Physical Laboratory
Dr. K. S. Krishnan Rao,
New Delhi-110 022

September 19, 2005

Dear Dr. Sahni,

Thank you for your letter dated 30th August, 2005.

My congratulations for the progress that you and your colleagues have made with Indus-2. I hope CAT will be able to provide high quality Synchrotron Radiation beam very soon in future.

With regards,

Yours sincerely,
P.S. goel
(S.K. Joshi)

Dr. V.C. Sahni
Director
Centre for Advance Technology
Department of Atomic Energy
Indore - 452 013

Flat No. 4, Beach-Pearl Condo, Haji Society,
Plot 1, Sector 10A, Noida,
Noida, Uttar Pradesh-201 301
Phone : (0122) 7663367
Email : dasanacharya@vsnl.com

10.9.2005

Dear Dr. Sahni

Please accept my heartfelt congratulations. My congratulations go to you and your entire team for having achieved a major milestone on the way to INDUS-2, and best wishes for reaching the final goal.

The news was one of the happiest in my life and indeed I, like all of you, would be looking forward to continued successes with INDUS project.

With regards,

Yours sincerely
B. A. Basu

RRCAT

NEWSLETTER



महान् राज्य
राष्ट्रीय वैज्ञानिक संस्था
Dr. Bikash Saha
Director

No. VECC/CAT/SAC-PM/359

राष्ट्रीय वैज्ञानिक संस्था
राष्ट्रीय वैज्ञानिक केंद्र
गवर्नमेंट ऑफ इंडिया
DEPARTMENT OF ATOMIC ENERGY
INDIA
VARIABLE ENERGY CYCLOTRON CENTRE

September 14, 2005

Dear Dr. Sahni,

During various meeting of SAC-PM in recent times, it was decided that SAC-PM should visit, if possible, various important and relevant centres where scientific activities are carried out at the highest level using mega and medium facilities.

Indore, CAT Centre certainly and eminently falls in that category.

My own impressions are formed out of fusion of my involvement quite intimately for quite a long time with our own departmental activities, CAT in particular, and of course as a member of the SAC-PM.

First, I was thrilled to see so much has been done by so many in so short a time. I was delighted beyond measure that on the very day SAC-PM visited CAT the electron beam at INDUS-2 had a fairly healthy go around. This is a tremendous achievement by any standard given the size of the operation. To just say "congratulations" is not enough - the milestone is a culmination of years of intense activities. I salute that resolve.

I was so excited to see almost each member of the SAC-PM present there Indore had "stars" and twinkles" in their eyes.

BRAVO, CAT, ENCORE

With best regards,

Yours sincerely,

Dr. V.C. Sahni
Director
Centre for Advanced Technology
PO. CAT
Indore - 452 013.

दर्शक : १, शेरा - १ वां भूमि पर्स अड्डा - २५००६४ विहार
फ़ोन : २३३७०३३२, २३३७१२३०, २५८७५ - डिप्लोमेटी विहार, विहार - २३३४०२६१

श्री. बलदेव राज, प्रभाग उपायकारी, वायव्य
प्रशिक्षण विभाग एवं विदेश

Dr. BALDEV RAJ, FNAE, FAE, FNAE
Distinguished Scientist & DIRECTOR



राष्ट्रीय वैज्ञानिक संस्था
इंद्रिय गौदीय परायन अनुसंधान केन्द्र
गवर्नमेंट ऑफ इंडिया
DEPARTMENT OF ATOMIC ENERGY
INDIRA GANDHI CENTRE FOR
ATOMIC RESEARCH
KALPAKKAM 603102, TAMIL NADU

14 September 2005

MESSAGE

A visit to the laboratories and facilities at CAT- Indore, the sprawling and scenic campus built around the Sukh-Niwas palace and the lake, has always been an invigorating experience for me. The centre piece, the INDUS-2 storage ring has been making rapid progress. One can discern an enthusiasm and anticipation as the scientists and engineers are putting together an advanced accelerator technology, the first of its kind in India, involving the booster and storage ring, RF power systems, and magnets. Apart from the synchrotron facilities, R&D activities in laser and materials science and technology, in particular the front-line research on optical tweezers and bio-medical applications of lasers are very impressive. At IGCAR, we have benefited from expertise of CAT in the area of lasers, in evolving our R&D programs on distributed optic sensors, image plate reader, and laser based metrology.

First trial injection of the beam into the ring has been successful. It speaks of the competence and motivation of the team at IGCAR. This is truly a land mark event, and bears testimony to the conviction in our capabilities in indigenous growing the technologies. I wish you and the team all the success in the future, and look forward to fruitful collaborations towards the development and utilization of beam lines of INDUS-I and INDUS-2.

Baldev Raj

16

श्री. अरुण निगवेकर
अध्यक्ष

Dr. Arun Nigavekar
Chairman



विश्वविद्यालय अनुदान आयोग
वराह मंत्र वार तार. नई दिल्ली-११०००८

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FAX : (011) 23331797
E-mail : naru42@hotmail.com

D.O. No. F.1-11/2005 (CM)

September 12, 2005

Dear Dr. Sahni

I was very happy to receive your letter No. CAT/Dir/D-1/1/2005 of August 31, 2005 informing that the first trial injection of the beam into the ring has been commenced and you got positive results on August 27, 2005. I congratulate the entire scientific staff connected with this project and send my greetings to you for your very vibrant and dynamic leadership.

With warm regards,

Yours sincerely,

(Arun Nigavekar)

Dr. V.C. Sahni,
Director
Department of Atomic Energy
Centre for Advanced Technology
Indore - 452 013.

SAPTEC

श्री. ग. श्रीवास्तव
FNAE, FAE, FNAE

G.P. SRIVASTAVA
FNAE
Distinguished Scientist,
Chairman & Managing Director



इलेक्ट्रॉनिक्स कर्मचारीशान आफ इंडिया लिमिटेड
Electronics Corporation of India Limited
A Govt. of India (Dept. of Atomic Energy) Enterprise
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Phones: +91-40-21210555 / 21210602
Fax: +91-40-2125361 / 21210602
E-mail: cmd@ecil.co.in

CMD:153 2005-09-16

Dear Dr Sahni,

I am in receipt of your letter No. CAT/Dir/D-1/1/2005/258 dated 29th August, 2005.

I, on behalf of ECIL, am extremely happy to note that the Indus-2 has reached the milestones of completing the task of putting together the Storage Ring along with the Transfer Line-3 and the first trial injection of the beam in to the ring on 27th August, 2005 at 2110 hrs.

I believe this is one of the significant milestone in DAE programme and convey my hearty congratulations to you and your team.

With personal regards,

Yours sincerely,

(G.P. Srivastava)

To
Dr V.C. Sahni
Director
Centre for Advanced Technology
INDORE - 452 013

RRCAT

NEWSLETTER



Satish K. Kaura
Chairman & Managing Director

SAMTEL COLOR LTD.
52, Community Centre
New Friends Colony
New Delhi-110 065
Phone : 6832151, 6845410
Fax : 6837534

आर.सी. कॉलर्स लिमिटेड
नई फ्रेंड्स कोलींजी



September 10th, 2005

Dear Dr. Sahni,

I had often heard a great deal about Centre for Advanced Technology but never had the opportunity to visit the place. The SAC-PM meeting on 27 August at CAT gave me an occasion to personally see the Centre and get familiarized with the exciting work the Centre has been doing.

First, let me congratulate you and your colleagues for your dedication, expertise and achievements. I was very impressed with the successful development of the Synchrotron Radiation source, a technology development marvel meticulously implemented with a totally indigenous effort. It is heartening to note that so many multidisciplinary inputs went into the creation of this machine, such as high vacuum technology, high power RF, precision manufacturing, electronics, etc and that CAT has set up dedicated facilities and developed expertise in all these areas.

Having said this, I would like to add that existence of such pockets of excellence and the knowledge residing there is not generally communicated to the industry. It is possible that many industries in the country would have benefited by drawing upon the know-how and experience of CAT in these and other areas.

I understand that CAT also has developed various lasers and a variety of medical and industrial laser systems. Due to paucity of time I missed visiting the laser labs. Perhaps another time!

Please continue the good work you are doing. I can assure you that Samtel would be calling on you for assistance in our activities from time to time in future.

Thanking you

Yours sincerely

Satish Kaura

Satish K Kaura

साम्पर्क लैन, गुरुग्राम

TATA INSTITUTE OF FUNDAMENTAL RESEARCH
National Centre of the Government of India for Nuclear Science and Mathematics
(A Deemed University)
Homi Bhabha Road, Colaba, Mumbai 400 005

Professor S. Bhattacharya
Director

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Fax : 91-22-22804501
E-Mail : sbpho@tifr.res.in

Sept 21, 2005

Dear Dr. Sahni,

Thank you for your letter on the developments at Indus-2. Congratulations to you and your team for having achieved an important milestone and I wish you continued success in the future.

Congratulations once again.

With best regards,

Yours Sincerely,

S. Bhattacharya

माना गया दस्तावेज़, गुरुग्राम
केंद्रीय विभागीय अधिकारी
फॉर्म नं. १०१ / इंदौर ऑफिस
माना गया दस्तावेज़, गुरुग्राम
प्राप्ति नं. - ७३६
इंदौर नं.
दिनांक..... ३/१०५

Dr. V. C. Sahni
Director
Centre for Advanced Technology
Department of Atomic Energy
Indore 452013

आर.सी. कॉलर्स लिमिटेड
नई फ्रेंड्स कोलींजी

R. KALIDAS
Chairman & Chief Executive

D.O. No. NFC/CE/DAE-103/05/785

September 6, 2005

Dear Dr. Sahni,

Thank you very much for your letter no. CAT/Dir/D-1/1/2005 dated August 31, 2005 sharing your joy of Indus-2 having reached a milestone. It is indeed joy for everyone in the Department with the progress made in the Indus programme under your very able and dynamic leadership. Kindly accept my hearty congratulations to you and your colleagues for the excellent work being done. I convey greetings and best wishes on behalf of myself and my colleagues at NFC for success in your future endeavours.

With best personal regards,

Yours sincerely,

R. Kalidas



Nuclear Power Corporation of India Limited
(A Government of India Enterprise)
Kakrapar Atomic Power Station
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SDW Board Off. : 02626 - 234233 / 234044 / 231223
SDM Ext. : 4000
SDM Post. : 02626 - 234206
SDM Off. : 0261 - 2626902 / 2627911
SDM Fax. : 02626 - 234288 / 234268
E-Mail ID: shapen@pilco.com

No. KAPS/SD/2005/ 3.2.3

September 16, 2005

Dr. V. C. Sahni
Director
Centre for Advanced Technology (CAT)
Indore- 452103

Dear Shri Sahni,

Our hearty congratulation on achieving a milestone on Indus-2. We wish many more laurels to CAT/DAE under your esteemed leadership.

With best regards,

Yours sincerely,

S. K. Tapir

RRCAT

NEWSLETTER



Dr. S. K. SIKKA

दैवानिक सचिव
प्रथम अधिकारी एवं प्रमुख शोधकार एवं संस्थापन
विभाग एवं उपर्युक्त
विभाग अधिकारी का नं. विभाग-110011
Scientific Secretary
Office of the Principal Scientific Adviser
to the Government of India
Vigyan Bhawan Annex
Mausam And Road, New Delhi-110011

No.Prn.SA/SS/02/2005

September 06, 2005

Dear Dr. Sahni,

I am delighted to note from your letter No.CAT/Dir/D-1/1/2005/366 dated 30th August, 2005 that the first trial injection of the beam into the ring occurred on August 27, 2005. Please accept my congratulations on this and convey the same to the involved scientists and technologists of Centre for Advanced Technology.

With best regards,

Yours sincerely,

SK Sikka

(S.K. SIKKA)



Dr. R. K. Choudhury
From
Director

भौतिकी संस्थान
भुबनेश्वर
Institute of Physics
Bhubaneswar - 751005, India

FAX Message

31st August, 2005

Dear Dr. Sahni,

It is a very good news to know that the beam injection trial in the 2.5 GeV synchrotron ring is successful. I convey our compliments to you and the CAT team for this landmark achievement.

With kind regards,

Yours sincerely,

R. K. Choudhury
(R. K. Choudhury)

TATA MEMORIAL CENTRE

TATA MEMORIAL HOSPITAL
AND

ADVANCED CENTRE FOR TREATMENT, RESEARCH & EDUCATION IN CANCER

Dr. Ketayun A. Dinshaw
(MMT (Ind), FRCR (Ind))
Director, Tata Memorial Centre
and
Professor, Dept. of Radiation Oncology



E. Borgo Maid, Patel
Nagar, 400 012, India
Phone : 2413 9318 / 2417 7000
Fax : 91-22-2416 9440, 2414 6937
E-Mail : dinshaw.tmc@vsnl.com
Website : www.tatamemorialcentre.com

September 19, 2005

Dr. V.C. Sahni,
Director,
Centre for Advanced Technology,
Indore 452 013.

Dear Dr. Sahni,

I was really pleased to receive your letter of 30th August, 05 announcing the milestone of completion of Indus-2.

My congratulations to you and your team of dedicated Scientists.

With best wishes and regards,

Dinshaw

K.A. Dinshaw,



प्रोफेसर मीमोरिली संस्थान मुंबई^{१०८}
वडे, ३५६ ४०० ०७८, मुंबई^{१०८}
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Ashok Mitra, Director
Mobile: 9820 450 000

D.IIB-3/2005
September 8, 2005

Dear Dr. Sahni,

Thank you for your letter No. CAT/Dir/D-1/1/2005/346 of August 30, 2005 about the status of 2.5 GeV Synchrotron Radiation Source (SRS) Indus-2. I am really happy to note that this facility is ready and that you had conducted the first trial injection of the beam on 27th August, 2005. This has been possible only due to the efforts of several scientists of the Centre for Advanced Technology, Indore.

My heartfelt congratulations to you and your team at CAT.

With warm personal regards,

Yours sincerely,

[Signature]
[Ashok Mitra]

IIT Bombay

RRCAT

NEWSLETTER



आन्तर-विश्वविद्यालय त्वरक केन्द्र
INTER-UNIVERSITY ACCELERATOR CENTRE
 (Formerly Nuclear Science Centre)
 विश्वविद्यालय मंत्रालय द्वारा स्वतंत्र केन्द्र
 (An Autonomous Centre of UGC)



Dr. Amit Roy
DIRECTOR

Ref: IUAC/INDUS/2005.

September 7, 2005

Dr. V. C. Sahni
Director
Centre for Advanced Technology
Indore-452 013

Dear Dr. Sahni,

I am very happy to learn about the successful injection of beam into the Indus-2 rings on August 27th. This is a significant milestone for Indus-2. Please convey my congratulations to the entire team and I am looking forward to further progress and fulfillment of the goals of Indus-2.

With regards,

Yours sincerely,

(AMIT ROY)



निदेशक, इमर प्रौद्योगिकी
DIRECTOR, P&S

DO DPS/HQ/2013(1)

भारत सरकार
परमाणु ऊर्जा विभाग
क्रम और प्रौद्योगिकी विभाग
विस्तृत संग्रह परामर्श,
बालापालन, बंगल - 400 094.

GOVERNMENT OF INDIA
DEPARTMENT OF ATOMIC ENERGY
DIRECTORATE OF PURCHASE AND STORES
VIKRAM SARKAR BHAVAN
ANUHAKTIKALAN, MUMBAI - 400 004

September 5, 2005

Dear Dr. Sahni,

I thank you for your letter No. CAT/Dir/D-1/L/2005/468 dated 30th August 2005. Heartly Congratulations to you and the entire staff of CAT, Indore for achieving this milestone of Indus-2.

It is indeed a great pleasure to know that the first trial injection of the beam into the ring commenced and 450 MeV beam circulated through the storage ring completing full 4 rounds. This is a great achievement in the Accelerator Technology and I am sure, it will go a long way in fulfilling the requirements of our scientists for further research.

I am also thankful to you for taking us for a round in the Indus-2 Facility during our visit to Indore in the first week of August 2005.

I once again wish you all the very best for achieving the milestones in this advanced technology area.

With kind regards,

Yours sincerely,

(N.D. Sharma)



INDIAN INSTITUTE OF TECHNOLOGY MADRAS
 CHENNAI - 600 036

Dr. ASHOK JHunjhunwala
Professor

Telecom and Networks (TeNet) Group
Department of Electrical Engineering

Ref: ELE/A/W/1001/05

5th September 2005

To
Dr. V.C. Sahni
Director
Dept. of Atomic Energy
Centre for Advanced Technology
Indore - 452013
Fax: +91-0731-2321343

Dear Sahni,

Thank you for your letter ref. no. CAT/Dir/2005/380 dated September 2, 2005. Thank you for hosting us at your institute. The work that you have been able to do is indeed very impressive. I congratulate you, I request you to please visit us sometime when you come to Chennai.

Thanking you,

Sincerely Yours,

 (Ashok Jhunjhunwala)

UGC-DAE Consortium for Scientific Research

मिशनरी अग्रणी विद्या और विज्ञान विभाग
 (An autonomous institution of UGC, New Delhi)

Dr. Praveen Chaddah
FASc., FNA
की. प्रवीन चहड़ा
प्रभाव

University Campus,
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INDORE-452017 (M.P.)
Biomass office, room no.
gdrb - 452017 (M.P.)

Official Head Post Number
CSR-Dir-3-1-A/05-06/184

12 September 2005

Dr. V.C. Sahni,
Director,
Centre for Advanced Technology,
P.O. CAT,
INDORE-452013

Dear Dr. Sahni,

Please accept our congratulations to you and your colleagues on the major achievement of having achieved 4 turn-circulation of a 450 MeV beam in INDUS-2.

Along with many other researchers in the country, we eagerly await the commissioning of INDUS-2. We look forward to utilizing it for high quality research work.

Congratulations once again!

With regards,

Yours sincerely,

 (P. Chaddah)