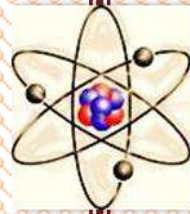




वार्षिक प्रतिवेदन Annual Report



हरीश-चन्द्र अनुसंधान संस्थान
Harish-Chandra Research Institute

छतनाग मार्ग, झुंसी, इलाहाबाद - २११०१६
Chhatnag Road, Jhunsi, Allahabad - 211019

2017-18

CONTENTS

1. About the Institute	01
2. Director's Report	02
3. Governing Council	03 - 04
4. Academic Staff	05 - 06
5. Administrative Staff	07 - 08
6. Summary of Research Activities in Mathematics	09 - 11
7. Summary of Research Activities in Physics	12 - 14
8. Library	15 - 17
9. Computer Centre	18 - 19
10. Construction Activity	20
11. Note on Persons with Disabilities & SC/ST	21
12. Vigilance, Security and Sexual Harassment Report	22 - 23
Audit Report (2017-18) (Audited Balance Sheet 2017-18)	24 - 61

1

About The Institute

The Harish-Chandra Research Institute (HRI), Allahabad, is a premier research institute in the country. It is an autonomous institution fully funded by the Department of Atomic Energy (DAE), Government of India. The Institute started with the efforts of Dr. B.N. Prasad, a mathematician at the University of Allahabad, who provided the initial leadership. Financial support was provided by the B.S. Mehta Trust, Kolkata. Dr. Prasad was succeeded in January 1966 by Dr. S.R. Sinha and then by Prof. P.L. Bhatnagar - the first formal Director. After an interim period, in January 1983 Prof. S.S. Shrikhande joined as the next Director of the Institute. During his tenure the dialogue with the DAE entered into decisive stage and a review committee was constituted by the DAE to examine the Institutes future. In 1985, Shri N.D. Tiwari, the then Chief Minister of Uttar Pradesh, agreed to provide sufficient land for the Institute and the DAE promised financial support for meeting both the recurring and non-recurring expenses.

In January 1990, about 66 acres of land was acquired in Jhunsi, Allahabad. Prof. H.S. Mani took over as the Director in January 1992 and played a crucial role in building the HRI campus at Jhunsi and also giving the Institute its modern academic shape. He retired in August 2001. The charge was taken over by Prof. R.S. Kulkarni, to be followed, successively, by Prof. Amitava Raychaudhuri and Prof. Jayanta Kumar Bhattacharjee. The current Director, Prof Pinaki Majumdar, took over on 11th April 2017.

HRI is devoted to fundamental research in diverse areas of mathematics and theoretical physics. The areas of research in mathematics are number theory, differential geometry, harmonic analysis, group theory and topology. In physics the areas are astrophysics, string theory, high energy phenomenology, condensed matter physics and quantum information theory.

Since 1992 the Institute has attracted worldwide attention, as is evident from the recognition received by many of its members. The outstanding contributions of Prof. Ashoke Sen to mathematical physics has been recognised by a Fellowship of the Royal Society (FRS) of the U.K., the award of one of the first Fundamental Physics Prizes (2012) from the Yuri Milner Foundation, and the Dirac Medal of the ICTP. Prof. Dipendra

Prasad, Biswarup Mukhopadhyaya, Pinaki Majumdar, and Rajesh Gopakumar have been awarded the Shanti Swarup Bhatnagar Prize for work done at the Institute.

Around 25 of the alumni of the institute hold faculty positions in premier scientific institutions of the country. Various members of the Institutes faculty have been elected to the three Academies of Science of India over the years. At least two former faculty members of the Institute are currently directors of national scientific institutions.

HRI puts a great deal of emphasis on teaching, in addition to research. The major development in recent years is the start of a M.Sc program in physics (in 2017) and the development of a teaching laboratory on campus. Finally, despite having only thirty faculty members HRI ranks among the top 10 research institutes in the country according to Nature India.

2

Director's Report

For us 2017-18 was significant for multiple reasons. We started a Masters program in Physics, with a laboratory on campus. We hosted several visitors, over the year, on the basis of an Infosys grant. Finally, an unusually large number of Ph.D students joined the institute in 2018 - with a welcome reduction of the average age on campus! I touch briefly on these below.

The beginning of a Masters program had been planned for a couple of years, moving through discussions with the Department of Atomic Energy (DAE) and the Homi Bhabha National Institute (HBNI). With the requisite approvals and financial support granted, the first batch of prospective students were interviewed in summer 2017. Four joined. We reconfigured our community center Annexe as a laboratory space and, with some help from experimental colleagues elsewhere, set up a laboratory. This now has pride of place on campus. The incoming batch of 2018 has 8 students, we hope it will increase over the next few years to the full strength of 20.

HRI has a vibrant visitors program. This year the numbers were larger since, in addition to institutional support, we had an Infosys grant to invite visitors to lecture at HRI. Visitors included Yuri Nesterenko (Moscow State) lecturing on “Analytic functions & their Transcendental Values”, Bobby Acharya (ICTP), Ted Erler (Prague), and Yuji Okawa (Tokyo) all lecturing on String Theory, Milind Diwan (Brookhaven) and Pascuale Di Bari (Southampton) lecturing on Particle Phenomenology, Andrew Bremner (Arizona State) on “Analytic geometry and Number theory in Diophantine Problems”, and Hiroyuki Yamane (Toyoma) on “Representations of Quantum Superalgebras”. We expect several more visitors within this program before the end of the year.

There were several academic meetings. These included a “Focused meeting on Stack in Algebraic Geometry” in July 2017, an international conference on “Class Groups of Number Fields and Related Topics” in September 2017, a DST sponsored meeting on “Quantum Science and Technology (QuST)” in October 2017, Nu HoRlizons VII and School on String Field Theory and String Phenomenology, in February 2018 and the Sangam@HRI-2018 – Instructional Workshop in Particle Physics, in March 2018.

Fifteen Ph.D students graduated from HRI during 2017-18. We maintained our research productivity, maintaining a position within the top 10 in the Nature India list. About twenty five students joined the Ph.D program this summer, they will enliven what was beginning to look like an ageing campus.

In addition to the formal training programs for B.Sc and M.Sc students we held our annual Talent Search examination for school level children in Allahabad. We invited eminent speakers from various areas of enquiry to deliver colloquia at HRI. These included natural scientists, social scientists, and humanists, exposing our students to the broader currents of knowledge.

I end on a sad note, our colleague Govinda Venketeswara Pai, a condensed matter physicist, passed away on 1 June, 2018. He was only forty six.

Prof. Pinaki Majumdar
Director

3

Governing Council

1. Prof. M. S. Raghunathan
Chairman
503, Atlantis
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2. Joint Secretary (R& D)
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Deptt. of Atomic Energy
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Mumbai – 400 001
3. Joint Secretary (Finance)
Govt. of India
Deptt. of Atomic Energy
Anushakti Bhavan
Chhatrapati Shivaji Maharaj Marg
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5. Dr. J. N. De
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6. Prof. S.M. Chitre
Chair, Academic Board
University of Mumbai
Department of Atomic Energy
Centre for Excellence in Basic Sciences (UM-
DAE-CBS) Health Centre Building
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9. Shri S. L. Mehta
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11. Shri Rajnish Mehta
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4 Academic Staff

Mathematics

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5 Administrative Staff

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23.	Shri Vivek Kumar	Junior Library Assistant	vivekkumar@hri.res.in
24.	Shri Dinanath Dubey	Bearer (Canteen Cadre)	-
25.	Shri Kamlesh Thakur	Bearer (Canteen Cadre)	-
26.	Shri Kamta Prasad	Peon/Watchman	-
27.	Shri Rajesh Kumar	Safaiwala	-
28.	Shri Munna Lal	Gardener	-

6

Summary of Research Activities in Mathematics

Number Theory

A subset D of the subset of natural numbers is said to be an asymptotic basis of finite order of the natural numbers if there exists a positive integer m such that every sufficiently large integer can be written as a sum of at most m elements of D . The smallest m for which the above property holds is called the order of the asymptotic basis D . There are two classical examples of asymptotic bases of finite order. The first of these is the set of squares of the natural numbers, which by Lagrange's four squares theorem, is certainly an asymptotic basis of order four. The second example is the set of the prime numbers, which is seen to be an asymptotic basis of order at most 4 by the classical theorem of Vinogradov which asserts that every sufficiently large odd integer can be written as a sum of three prime numbers.

Given an asymptotic basis D of finite order and an integer $K \geq 1$ one may ask the following question, originally due to A. Sárközy. What is the smallest integer $r_D(K)$, if it exists, such that given any colouring, or partition, of D in K colours, every sufficiently large integer is expressible as a sum of at most $r_D(K)$ elements of D , all of the same colour? We have obtained nearly optimal answers to this question when D is the one of the set of prime numbers, squares or the set of squares of prime numbers.

In work in progress we look at another problem of Sárközy and Erdős : given a natural number n , how dense a subset A of the integers necessarily be if every sufficiently large natural number can be expressed as $a_1 + \dots + a_n$ with a_i in A for every i . We have obtained a nearly optimal answer when $n \geq 3$ and the work is in progress for $n = 2$.

We have obtained novel formulae for the number of representations of a positive integer by certain quadratic forms by the evaluation of convolution sums of the divisor sums. Also, an affirmative answer has been obtained for a question of S. Bocherer concerning the differential operators on Jacobi forms. Given two L-functions, it is of great interest to number theorists to know whether they both are same or not. We have given a criterion in terms of the upper density of coefficients at prime indices such that a given Hecke eigenform will be a character twist of another. We also obtained an effective joint distribution of eigenvalues of Hecke operators.

We have obtained a finiteness result for the solutions of the Diophantine equations of the form $U_{n_1} + U_{n_2} + \dots + U_{n_t} = p^z$ with non-negative integers n_i ; ; n_t and z , where $\{U_n\}_{n \geq 0}$ is a binary non-degenerate recurrence sequence of positive discriminant and p is a fixed prime. Moreover, we explicitly find all the powers of three which are sums of three balancing numbers using the lower bounds for linear forms in logarithms. We have completely solved the Diophantine equation $(x+1)^3 - (x+2)^3 + \dots - (x+2d)^3 + (x+2d+1)^3 = z^p$, where p is prime

number and x, d, z are integers with $1 \leq d \leq 50$. In other work, we have similarly solved the Diophantine equation $(x - 2)^5 - (x - 1)^5 + x^5 - (x + 1)^5 + (x + 2)^5 = z^n$, where x, z and n are integers with $n \geq 2$.

We have constructed an interesting family of imaginary quadratic fields each with class number divisible by a given integer $g > 1$. It is also proved that such a family has infinitely many members. D. Byeon and E. Lee proved that there are infinitely many imaginary quadratic fields whose discriminant has only two prime factors and whose ideal class group has an element of order $2g$, g being a positive integer. In this context, we have proved a similar result, but with the discriminant having exactly n prime factors. In fact, this result is also true for real quadratic fields. We have also provided a lower bound for the number of such fields.

We have extended the asymptotic behaviour of the Riesz sum associated to the classical cusp forms of level 1 to higher levels. This is done by using the properties of the corresponding Rankin-Selberg L-functions and the symmetric square L-functions.

Algebra and Geometry

We have studied the Schur multiplier of central product of two arbitrary groups. First we present a reduction argument and then get two embeddings, one into the Schur multiplier and the other one from the Schur multiplier. These embeddings help in computing the Schur multiplier of central product of groups.

In other work, we have parametrised the set of primitive solvable extensions of an arbitrary field and worked this out explicitly in the case of a local field with finite residue field. We have also shown that the local reciprocity isomorphism satisfies a certain orthogonality relation.

Tensor triangular geometry is a study of tensor triangulated categories using algebro-geometric methods. The role of Zariski topology from algebraic geometry is played by Bousfield localizations. It was observed by Balmer that similarly the role of 'etale morphism is played by seprable monads via the Eilenberg-Moore construction. Balmer has asked for an existence of triangulated structure on the Eilenber-Moore category associated to an exact monad.

We partially answered this question of Balmer using the notion of enhancement of triangulated categories and DG monads. We also extended some further results of Balmer and studied some examples like twisted and equivariant derived categories.

The classification of thick subcategories of a singularity category was achieved by Stevenson for local complete intersection rings. This work is in progress and we are trying to extend these results to the case of graded singularity categories introduced and studied by Orlov.

We studied a functorial construction of moduli of equivariant pure sheaves. We are trying to extend the results to get the similar functorial construction for the moduli space of parabolic bundles via Biswas-Seshadri correspondence and Kronecker-McKay quivers.

Analysis and Geometry

We have obtained completely explicit classification of biconservative hypersurfaces in 4-dimensional Riemannian space form with exactly three distinct principal curvatures. We studied f -biharmonic and bi- f -harmonic submanifolds in both generalized complex and Sasakian space forms. First, we proved a general necessary and sufficient condition for f -biharmonicity and bi- f -harmonicity and then obtained many particular cases. Some non-existence results are also obtained.

We show that asymptotically harmonic and Einstein manifolds of dimension

4 is either RH_4 or CH_2 . We also show that asymptotically harmonic manifolds with minimal horospheres are flat. We prove the existence of manifolds with almost maximal volume entropy which are not hyperbolic.

We have extended the previously known result of Mockenhaupt, Sogge and Seeger to more general class of Fourier integral operators with amplitude functions that depends on the space time variable also. Using a duality argument we provide a simpler proof, and our local smoothing estimate requires only minor decay condition on a few derivatives of the amplitude function, with respect to the space time variables.

A series of results concerning reproducing kernel Hilbert spaces, related to the factorization of their kernels was obtained. In particular, it is proved that for a large class of spaces isometric multipliers are trivial. One also gives for certain spaces conditions for obtaining a particular type of dilation, as well as a classification of Brehmer type submodules.

We also associated to a family of Dirichlet spaces a locally finite rooted directed trees. We then studied the unitary equivalence problem of multiplication operators on these spaces.

We have worked on Geometric quantization and have calculated the dimension of the Hilbert space of quantization of Vortex Moduli. We have also quantized Toda systems, described the Hilbert space of quantization, found unitary representations and described coherent states.

Summary of Research Activities in Physics

The Physics division at HRI consists of five research groups. We summarise the work of each of them over the last year.

Astrophysics

At present, the astrophysics group at HRI consists of one permanent faculty member, one post doctoral fellow and four Ph.D. students. The group hosts visiting students and senior visitors. Members of the group works on various aspects of relativistic and high energy astrophysics, analogue gravity phenomena, dynamical systems and general relativity. In last one year members of the group attended workshops and conferences in India and abroad, delivered invited talks at various academic institutions, served as referee for international journals, served as external examiners of Ph.D. and Master's theses. The group members had around twenty publications all together in last one year.

Condensed Matter Physics

The condensed matter group has continued to work on correlated electron systems, topological systems and materials theory using first principles electronic structure methods.

In materials theory, over the last one year our research has been focused on the following topics: structural transitions in MnO₂, high throughput screening of transition metal trichalcogenides for efficient catalysts, and design of permanent magnets without rare earth elements.

In topological systems, we have been working on various problems - we have studied (a) charge pumping through non-abelian excitations like Majorana modes (b) driven topological systems in the low frequency limit and (c) the interplay of Floquet and Lifshitz transitions on bilayer grapheme and silicene.

In the field of correlated electron systems, we tried to include quantum Fluctuations on top of a non trivial classical background to compute response functions in correlated quantum systems.

We are also trying to develop methods to probe non equilibrium physics in magnets and superconductors.

High Energy Physics

A number of important contributions have come from this group in the context of new physics search at the Large Hadron Collider (LHC). The contributions have been mainly focussed in giving shape to new phenomenological frameworks beyond the Standard Model (BSM) of particle physics that involve extended scalar/gauge sectors and supersymmetry

and new ways of unravelling such scenarios at experiments have been proposed. The group has generated new ideas on the already discovered Higgs boson. Side by side, the open issue of dark matter of our universe has received novel contributions from this group, in the contexts of theoretical model-building, collider experiments and also gamma-ray and radio data from outer space.

The Neutrino group has been quite active. Members of the group are a part of new ambitious experiments planned to decipher the neutrino properties such as the INO and DUNE collaborations, two planned/up-coming neutrino experiments in India and USA, respectively. Significant work has been done by the group to study the phenomenology at these experiments and focus on extracting the standard neutrino parameters. In addition, impact of new physics such as signatures of neutrino decay, sterile neutrinos, non-unitarity, as well as non-standard neutrino interactions have been extensively studied. Efforts have been made to combine inflation, dark matter, leptogenesis and neutrino mass in a common framework. Several works of the group have focused on proposing new models that explain the observed dark matter density of the universe in BSM extensions. Signatures of Dark matter in such extensions have been studied for the LHC, direct and indirect dark matter detectors. These have been shown to also simultaneously explain the other observational evidence of new physics such as neutrino masses and mixing and baryon asymmetry of the universe. Bounds on the sum of neutrino masses based on cosmological data in the context of various cosmological models have also been studied. Work on understanding new results from MiniBooNE is also ongoing, as is work on ultra-high energy neutrinos from IceCube.

Quantum Information and Computing

Quantum Information and computation is a science at the crossroads of physics, computer science, mathematics, and information theory, and has the potential of revolutionizing the future of communication and computational technologies. In the last academic year, the research topics on which the members of the quantum information and computation (QIC) group at HRI has worked include uncertainty related based on median as well as mean-deviation, quantum coherence measures and its applications, quantum communication protocols involving multiple parties, entanglement patterns in one-dimensional quantum spin models like XY model with Dzyaloshinskii-Moriya interaction, Hubbard model. In particular, based on a different statistical concept, namely the median, we have proposed a quantum uncertainty relation between the semi-interquartile ranges of the position and momentum distributions of arbitrary quantum states, and in another work, we have presented alternative forms of uncertainty relations, in both state dependent and state independent forms, based on the mean deviation.

The QIC group at HRI consists of three faculty members, 10 PhD students, 6 postdoctoral fellows and one adjunct professor. The group has produced around 23 research articles, published in several international journals, like Phys. Rev. Lett., Phys. Rev. B, Phys. Rev. A, Phys. Rev. E, Europhys. Lett., J. Phys. A, Phys. Lett. A. A research article, published by group member has been highlighted in NATURE ASIA. The group members have organized a DST meeting on quantum information science and technology (QuST) in October 2018

involving eminent scientists working in this field and officials from DST from India. The members have mentored several young students as visitors for short and long research stays from all over India and abroad, as part of their general manpower development program. Members of the group have presented invited lectures in different institutes in India and abroad and have participated several workshops/conferences to present research activities performed by the group, as well as to forge new collaborations.

String Theory

One of the major problems in Physics is to obtain a theory which can describe the gravitational force at very short distances (i.e quantum mechanically). String theory is the leading candidate for providing us with such a theory. In the last year, the string theory group at HRI has explored various avenues in string theory with the goal of developing a better understanding of the theory and making connection to phenomenology.

Theorems regarding the behaviour of the gravitons (elementary excitations of the gravitational field) of very low energy have been proven and their implications for gravitational radiation have been analysed. The background independence of closed superstring field theory has been proven. Vertex operators of massive string states in the pure spinor formalism have been constructed. Entanglement entropy has been studied in novel systems. Chaotic systems have been analysed to gain better understanding of the Lyapunov exponent. The low energy behaviour of interactions of gravitons has been analysed in the heterotic string. Models of cosmology in string theory have been studied in the context of the inflationary paradigm.

8 Library

The Library of HRI serves as knowledge hub containing resources not only in the form of print but also in electronic resources. In any academic/research institution library plays an important role in the dissemination of knowledge. In fact, the ambience of the library reflects the quality of the education/research imparted by the Institute. HRI library has recognized the importance of the academic vibrations required in the library and has been growing in this direction, right from its very inception.

Library Hours: The library works on all days of the year except a few holidays of National and Social importance.

Monday to Saturday	: 8.00am to 2.00am (midnight)
Sundays & Gazetted holidays	: 10.00am to 6.00pm

The Institute's library is one of the best equipped libraries in India, it aims to put the motto "**Books are for use**" into practice. The Library houses Text Books, Reference Books, Print Journals, Technical Magazines, General Magazines, E-Resources & Digital Collections, CDs & DVDs, Thesis, Bound Volumes of Journals, Dailies, Faculty Publications & Institute Publications etc., etc., added to this.

Glimpse of the library:

Resources	Details
Total Collection/Books:	60415
• No. of print books	20982
• No. of Bound Volumes	38084
• No. of Gift books	1349
Total Journals/Print	93
• National	15
• International	78
E-Resources/Databases:	
E-Journals:	
• Print + Online (Int)	53
• Online (Int)	5
• E-books	2234 (LNM Book Series)

Databases:		
• ScienceDirect	2400 + JIs	Elsevier Publication
• AIP Archive	8 JIs	American Institute of Physics
• MathScienet	Database of reviews, abstracts and bibliographic information	American Mathematical Society
• DMJ 100	Duke Math. JI - Back volumes from 1935 to 1999	Duke University Press
• Euclid Prime	32 JIs + 15 JIs complimentary	Duke University Press
• JSTOR	83 JIs	Ithaka Publication
CD's/DVD's	97	
General Magazines	3	
Newspapers	7	
Seating capacity	37	
Carpet area	650 Sq. Mts	
Computers for users	4 No's	
Library Mgt. Software	Libsys7 & Electro Magnetic Gate & Tattle tapes.	

Newly added materials during April 2017 to March 2018:

Books	171
Gift books	48
Bound Volumes	883
Journals/Print	3
Journals/Online	2

Rapid advances in Information and Communication Technology are changing the library and information services drastically. Besides this, expectations of the users have also risen manifold. Libraries are not mere spaces anymore; they are much more than that. It has become a challenge for library management to keep pace with changing information packaging and delivery methods on one hand and meet the user expectations on the other. HRI Library has been trying to do the same over the years and as per feedback from its patrons has been quite successful in this venture. HRI Library not only proactively work on its collection building and infrastructural augmentation, also put lot of emphasis on facilities and services for users. Like previous years, this year also focus was on the strengthening of

print collection along with e-resources and implementation of latest information and communication technologies in its services.

Highlights:

Services / Facilities:	Best Practices: A “Best Practice” in simple terms is known as the practice, which paves the way for enhancing the existing functions & helps in effective implementation or use of the process.
Web enabled library catalogue service	Library Website/Web OPAC
Circulation service (Issue/Return)	Self-Issue/Return System
Reference	Electromagnetic Security Gate
Referral	Off-campus service through e-mail & Library Extension service
External Membership	Overnight issue of Reference Books
Reprographic	Stock Verification
New Arrivals	Display of Faculty/PDF/Student Publications
Spiral Binding & Lamination	Display of Institute Publications
Newspaper clipping	Library Advisory Committee
User Orientation	18 Hours uninterrupted Services
Book Exhibition	
Inter Library Loan	

Library Advisory Committee:

Library Advisory Committee is functioning to look into all aspects of continual improvement of the library activities, so that the library and its facilities achieve a fair degree of acceptability amongst the users. This Committee, co-coordinated by a faculty as the Chairman & other faculty-representatives as members, the librarian is the ex-officio member secretary of the committee. Library Advisory Committee plays an advisory and advocacy role regarding the library in its support of teaching, learning, research and community-building needs of the Institution. It assists in the provision of high quality library service to the faculty and students of the HRI Community by advising the Director in all development activities of the library.

9

Computer Centre

1. The computing facilities of the Institute are one of the best in the country. It provides the required support to the academics and research activities and to administrative activities. The computing facilities are available to users round the clock i.e 24x7x365 throughout the campus.
2. The entire HRI campus is connected with OFC based 1Gbps backbone providing the network and Internet connectivity to each and every office, hostel and guest house rooms helping the scientists and all the other members on campus to work from any place in the campus even during odd night hours.
3. All the desktops of the faculty, students, post-doctoral fellows and visiting fellows were upgraded with the newer version of Linux operating systems.
4. Newer versions of several applications software and packages were loaded on users' desktops, Computer Centre desktops and conference room desktops, which provided the researchers to do their numerical and analytical calculations faster and obtain more precise results.
5. All the important packages were upgraded on Mail, Webmail, DNS, SSH, DHCP+DDNS, Proxy, LDAP and Firewall servers for the better, reliable and secure performance. Firewall rules were modified to increase the security level of the servers and network services.
6. Some additional security features were added in the Mail Servers and other External Servers facing the Internet.
7. During the various conferences computer facilities were provided in the conference computer room to all the participants. Adequate computer support were provided to participants of the conferences.
8. Additional computing support was provided to the visiting scientists and visiting students under Visiting Students Programme (VSP) and Summer Programme in Mathematics (SPIM).
9. All the students, faculty members, administrative members, project staff and visitors are given a desktop on their office desks.
10. The Video Conference System of the main meeting / discussion room of the Institute was upgraded which is being used for academic and administrative meetings, conducting the students thesis viva and for organising lectures with other academic institutes nationally and internationally.

Current activities and plans:

1. 12 Linux / Windows based desktops and 16 iMac desktops are being purchased for the faculty members.
2. A colour printer for the users is being purchased.
3. It is planned to further enhance the performance and security level of Mail, Webmail, NFS, LDAP and firewall servers.
4. It is planned to upgrade all the old Desktops of the students, post doctoral fellows and administrative members within one year time frame.

10

Construction Activity

Following works have been carried out during this financial year.

- Enhancement of Electrical power system in switch yard and its related works near substation area.
- Civil, Electrical and other related works of Physics Lab.
- Modification of existing street light posts with LED light fixtures
- Covering & Development of Nala area near Community Centre Annexe

Some miscellaneous works related maintenance/modifications were also carried out which are hereunder.

- Renovation related to civil & electrical work in director's bungalow
- Arrangement of mesh door shutter in new type-E quarters and Gym in Community centre
- SITC of two nos. Multimedia LED Projector
- Kitchen hood in mess of Hostel-1

In addition orders had also been placed for some other works during this financial year.

These works (as below) were under progress after 31st March-2018.

- Supply and laying new telephone cable for old E-type and nearby housing
- Supply installation testing and commissioning of multi VRF-VRV AC System in Institute building
- Associated electrical works related to air conditioning
- Parking shed with related approach road
- Additional approach road

Note on Persons with Disabilities & SC/ST

This Institute is devoted to theoretical research in the field of Physics and Mathematics, is financially supported by the Department of Atomic Energy, Government of India. Its activities are overseen by the Governing Council and its day-to-day activities are administered by the Director of the Institute. The Institute has a very limited number of sanctioned positions, which are evenly distributed between the Academic & Administrative posts. The Institute does not have any specific scheme catering to persons with disabilities and therefore there is no specific budget allocated in this regard. The recruitment of Academic members is on the basis of their merit whereas recruitment in other sections of the Institute is done through an open advertisement. However, the Institute is sensitive to the subject of recruitment of persons with disabilities and would support such persons as and when the occasion arises. The Institute had advertised one post of Scientist 'E'/Fellow 'E' for person with disabilities but no body was found suitable.

Also the Institute is aware of its social obligation towards representation of Scheduled Castes and Scheduled Tribes in its services and follows the appropriate norms in recruitment.

Vigilance, Security and Sexual Harassment Report

Vigilance & Security Report: There is nothing specific to report from vigilance/security point of view for the period up to 31st March, 2017. The Institute follows the instructions received from DAE time to time pertaining vigilance/security matters.

Vigilance Audit of the Institute: DAE conducted a Vigilance Audit during 2nd April – 4th April 2018 for the year ending on 31st March 2018 by CVO, IREL (A Govt. of India Undertaking – Department of Atomic Energy). In the vigilance audit report, some procedure lapses along with suggestions were highlighted. The Institute has taken some corrective measures and also reported these to DAE vide letter no HRI/993/1124 dated 27th July 2018. In the report, it is mentioned that there was a remote possibility of abuse of powers/official positions by an individual and whatever violations observed, were due to ignorance rather than any malafied intent. There was no verifiable specific complaint about abuse of official position or abuse of powers by any one.

We have ensured the submission of Annual Property Returns (APRs) of all eligible employees up to 31.12.2016 and they have been scrutinized.

Further, regarding “Declaration of Assets and Liabilities by Public Servants under the Lokayukta Act 2013 for the years 2013-14, 2014-15 & 2015-16, Deptt. Of Personnel and Training has extended the date of submission of all declarations upto 31.12.2016. Fresh directives from Gol is awaited.

During the year there was no report of any security lapse in the campus.

Sexual Harassment : [In reference to DoPT, Gol OM no 11013/2/2014-Estt (A-III) dated Feb 02, 2015 & Section 22 of Sexual Harassment of Women at Workplace (Prevention, Prohibition and Redressal) Act 2013 [SHWW (PPR) Act]

As many as 10 female complainants (visiting students and Ex-PDF) had complained of sexual harassment and/or misconduct against one of the Faculty Member of the Institute. The incidents spanned over a prolonged period of time during 2013-16. The matter was referred to Internal Complaint Committee (ICC) constituted under u/s 4 of SHWW(PPR) Act for investigation. The ICC submitted its final report on 26-09-2016.

The committee found the Charged Official guilty of sexual harassment and mental harassment of young women by using his position of power in the Institute.

The Competent Authority/Disciplinary Authority was also of the view that the allegations of Sexual Harassment against the Charged Official were correct. The Disciplinary Authority came to conclusion that the case against the Charged Official was strong enough to take punitive action.

Considering it as a case of misconduct on part of the Charged Official, the Disciplinary Authority decided to impose the penalty of “Censure” on him. An order no HRI/GC-01-2017/101/ 864 dated 9th July 2017 imposing the penalty on the Charged Official was issued in FYR 2017-18. The Disciplinary Authority also decided that the Charged Official shall not be permitted to take any female students or PDFs or RAs to work with him. In case, the Charged Official is found indulged in such activities again, stern action shall be taken against him.

AUDIT REPORT 2017-18

Audited Balance Sheet

along with

Income & Expenditure Account

for the year ended on

31st March 2018

AMIT OM & Co.
CHARTERED ACCOUNTANTS

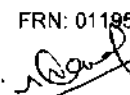
2nd Floor, Dr. Bajaj Building,
17/23, Tashkand Marg (SP Marg)
Civil Lines, Allahabad-211 003 (U.P.)
Ph. No. (0532) 2260 456, 7052952626
E-mail id: aocald@gmail.com

AUDITOR'S REPORT

1. We have audited the attached Balance Sheet of Harish-Chandra Research Institute, Allahabad as at 31st March, 2018 and also the Income and Expenditure Account for the year ended on that date annexed thereto. These financial statements are the responsibility of the management of the Institute. Our responsibility is to express an opinion on these financial statements.
2. We conducted our audit in accordance with auditing standards generally accepted in India. Those standards require that we plan and perform the audit to obtain reasonable assurance about whether the financial statements are free of material misstatement. An audit includes examining on a test basis, evidence supporting the accounts and disclosures in the financial statements. An audit also includes assessing the accounting principles used and significant estimates made by management as well as evaluating the overall financial statement presentation. We believe that our audit provides a reasonable basis for our opinion.
3. Subject to our comments as per annexure- "A" read with significant accounting policies and notes on accounts appearing in Schedule- 24 annexed hereto, we report that:
 - a. We have obtained all the information and explanation, which to the best of our knowledge and belief were necessary for the purpose of our audit.
 - b. In our opinion, proper books of accounts as required by law have been kept by the institute, so far as it appears from our examination of the books.
 - c. The Balance Sheet and Income and Expenditure Account dealt with by this report are in agreement with the books of accounts.
 - d. In our opinion and to the best of our information and according to the explanations given to us, the said accounts give a true and fair view :
 - i. In case of Balance Sheet, of the state of affairs of the Institute as at 31st March, 2018.
 - ii. In case of Income and Expenditure Account, of the excess of Expenditure over income of the Institute for the year ended on that date.

Place: Allahabad
Date: 26/09/2018

For Amit Om & Co
Chartered Accountants
FRN: 011957C


Amit Agarwal
Partner
M.No. 400193



AMIT OM & Co.
CHARTERED ACCOUNTANTS

2nd Floor, Dr. Bajaj Building,
17/23, Tashkand Marg (SP Marg)
Civil Lines, Allahabad-211 003 (U.P.)
Ph. No. (0532) 2260 456, 7052952626
E-mail id: aocald@gmail.com

Annexure "A" to the Auditor's Report

(Referred to in paragraph 3 of our Report of even date)

1. An amount of Rs. 4,78,50,030/- has been shown as Capital WIP, the construction of which has stopped through Hon'ble Allahabad High Court order.
2. The TDS deducted on Interest earned on FDRs and Short Term Deposits are treated as expense in the year of its deduction instead of treating it as an Asset. The policy of treating TDS as an expense is not as per the prescribed norms.
3. There is inconsistency in recording AMC charges in books, with the accounting policy followed by the Institution, as the policy is to record it on payment basis, whereas it has been recorded on accrual basis.
4. Compliance with the provisions of TDS is not made, as TDS should be deducted when the amount is paid or credited to the party whichever is earlier, as per Income Tax Act. On the contrary, the policy followed is to deduct TDS on actual payment basis.
5. Amount recoverable against completed projects shown as claims recoverable. Institute should take necessary steps to recover or write off the following amount :

A. NBHM Grant-K. Gangopadhyay	Since 2007	Rs.47,533.00
B. NBHM Grant-Joseph Samuel	Since 2007	Rs.17,030.00
C. NBHM Fellowships	Since 2009	Rs. 1,85,867.00
D. HNB Garhwal University	Since 2010	Rs. 40,000.00

6. Balance of EMD, Imprest Account, Security Deposits, Sundry Creditor, Loan & Advances and Claims Recoverable etc. are subject to confirmation, reconciliation and consequential adjustments thereof. Letters for third party confirmation has been sent by the Institution however no reply has been received till the date of audit.



7. Physical verification of Fixed Assets is being carried out by the Institute. The quantity and value reconciliation with fixed assets register for all the items is in progress therefore we are unable to comment that financial records are in agreement with assets as recorded in fixed assets register.
8. Previous Year's figures have been regrouped or rearranged wherever necessary.

Place: Allahabad
Date: 26/09/2018

For Amit Om & Co
Chartered Accountants
FRN: 011957C


Amit Agarwal
Partner
M.No. 400193



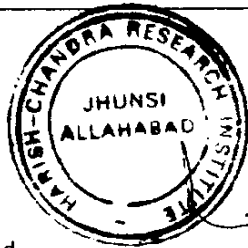


HARISH CHANDRA RESEARCH INSTITUTE, ALLAHABAD
BALANCE SHEET AS AT 31st MARCH, 2018

(Amount - Rs.)

	Schedule	Current Year	Previous Year
<u>CORPUS / CAPITAL FUND AND LIABILITIES</u>			
CORPUS / CAPITAL FUND	1	10,56,52,626.30	7,47,48,140.89
RESERVES AND SURPLUS	2	1,81,24,653.00	1,54,46,347.00
EARMARKED / ENDOWMENT FUNDS	3	10,80,10,758.00	10,40,30,341.00
SECURED LOANS AND BORROWINGS	4	0.00	0.00
UNSECURED LOANS AND BORROWINGS	5	1,42,03,168.50	97,88,702.50
DEFERRED CREDIT LIABILITIES	6	0.00	0.00
CURRENT LIABILITIES AND PROVISIONS	7	36,27,45,237.75	36,26,49,783.72
TOTAL		60,87,36,443.55	56,66,63,315.11
<u>ASSETS</u>			
FIXED ASSETS	8	16,20,63,019.00	18,54,57,612.28
INVESTMENTS - FROM EARMARKED / ENDOWMENT FUNDS	9	10,32,00,000.00	5,57,00,000.00
INVESTMENTS - OTHERS	10	13,97,81,881.00	8,45,25,113.00
CURRENT ASSETS, LOANS, ADVANCES ETC.	11	20,05,16,038.35	23,62,17,332.03
MISCELLANEOUS EXPENDITURE (Composite work of Power Line) (to the extent not written off or adjusted)		31,75,505.20	47,63,257.80
TOTAL		60,87,36,443.55	56,66,63,315.11

As per our separate report of even date attached



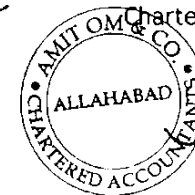
Date: 10-08-18
Place: Allahabad

(Signature)
(Raj Gulati)
Accounts Officer

For HARISH-CHANDRA RESEARCH INSTITUTE, ALLAHABAD

(Signature)
(Ravindra Singh)
Registrar

(Signature)
(Pinaki Majumdar)
Director



For M/s Amit Om & Co.
Chartered Accountants

(Signature)
Partner

26 SEP 2018

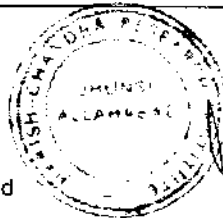


HARISH CHANDRA RESEARCH INSTITUTE, ALLAHABAD
INCOME AND EXPENDITURE ACCOUNT FOR THE PERIOD 01-04-17 TO 31-03-18

(Amount - Rs.)

INCOME	Schedule	Current Year	Previous Year
Income from Sales / Services	12	45,96,724.00	51,29,536.75
Grants / Subsidies	13	32,80,00,000.00	30,14,97,000.00
Fees / Subscriptions	14	0.00	0.00
Income from Investments (Income on Invest. From earmarked / endow. Funds transferred to Funds)	15	0.00	0.00
Income from Royalty, Publication etc.	16	0.00	0.00
Interest Earned	17	95,93,029.00	99,53,822.00
Other Income	18	29,07,496.01	21,36,320.00
Increase / (Decrease) in stock of Finished goods and works-in-progress	19	0.00	0.00
TOTAL (A)		34,50,97,249.01	31,87,16,678.75
EXPENDITURE			
Establishment Expenses	20	18,22,40,774.00	18,30,04,818.00
Other Administrative Expenses etc.	21	13,69,99,192.97	11,30,78,676.71
Expenditure on Grants, Subsidies etc.	22	0.00	0.00
Interest	23	0.00	0.00
Depreciation (Net Total at the year-end - Corresponding to Schedule 8)		3,60,35,593.00	5,89,12,116.49
TOTAL (B)		35,52,75,559.97	35,49,95,611.20
Balance being excess of Income over Expenditure (A-B)		-1,01,78,310.96	-3,62,78,932.45
Transfer to Reserve / Provisions			
Deferred Revenue Expenses - 33KVA Powerline		-15,87,752.60	-15,87,752.60
Provision for Retirement Benefits		-43,43,344.00	-3,46,50,953.00
Transfer to / from General Fund - Net of Revenue Grants		-87,60,033.03	-54,13,505.29
BALANCE BEING SURPLUS / (DEFICIT) CARRIED TO CORPUS / CAPITAL FUND		-2,48,69,440.59	-7,79,31,143.34
SIGNIFICANT ACCOUNTING POLICIES	24		

Date: 10-08-18
Place: Allahabad



(Raj) Gutati
Accounts Officer

For HARISH-CHANDRA RESEARCH INSTITUTE, ALLAHABAD

(Ravindra Singh)
Registrar

(Pinaki Majumdar)
Director

As per our separate report of even date attached



For M/s Amit Om & Co.
Chartered Accountants

Partner

26 SEP 2018

HARISH CHANDRA RESEARCH INSTITUTE, ALLAHABAD
SCHEDULE FORMING PART OF BALANCE SHEET AS AT 31st MARCH, 2018

(Amount - Rs.)

SCHEDULE 1 - CORPUS / CAPITAL FUND:	Current Year		Previous Year	
	Balance as at the beginning of the year (General Fund A/c)		7,47,48,140.89	
Add: Contributions towards Corpus / Capital Fund		3,09,04,485.41		6,23,02,297.45
Capitalization of assets from Grants	1,29,27,098.00		6,16,91,046.17	
DAE - XII Plan Grants Receipts-Additions during the year(Ann.A)	7,70,00,000.00		28,14,72,000.00	
DAE - XII Plan Grants Utilizations- Utilisations during the year(Ann.B)	-3,46,24,470.00		-20,02,23,878.80	
Receipts & Additions to Fund	21,15,827.00		17,14,281.00	
Expenses / Adjustments of earlier years	-16,44,529.00		-44,20,007.58	
Deduct: Balance of net income / (expenditure) transferred from the Income and Expenditure Account	-2,48,69,440.59		-7,79,31,143.34	
BALANCE AS AT THE YEAR - END		10,56,52,626.30		7,47,48,140.89

SCHEDULE 2 - RESERVES AND SURPLUS:	Current Year		Previous Year	
	1. Capital Reserve:		0.00	
As per last Account				
Addition during the year				
Less: Deductions during the year				
2. Revaluation Reserve:		0.00		0.00
As per last Account				
Addition during the year				
Less: Deductions during the year				
3. Special Reserve:		1,81,24,653.00		1,54,46,347.00
As per last Account	1,54,46,347.00		1,54,46,347.00	
Addition during the year (Interest earned on DAE grant - Refundable)	26,78,306.00		0.00	
Less: Deductions during the year	0.00		0.00	
4. General Reserve:		0.00		0.00
As per last Account				
Addition during the year				
Less: Deductions during the year				
TOTAL		1,81,24,653.00		1,54,46,347.00



Annexure-A forming part of Schedule 1 of Balance Sheet as at 31st March 2018

XII Plan Grant Receipts

Plan Projects	As on 31-03-17	Year 17-18	As on 31-03-18
Grant-Scientific Information Retrieval Development	2,59,61,000.00	37,00,000.00	2,96,61,000.00
Grant-Special & Thematic Events in Mathematics	2,21,07,000.00	53,00,000.00	2,74,07,000.00
<i>Grant-Analysis & Geometry (STEM)</i>	38,07,000.00	11,00,000.00	49,07,000.00
<i>Grant-Explicit Class Field Theory (STEM)</i>	24,34,000.00	4,00,000.00	28,34,000.00
<i>Grant-Group Theory & Representation Theory (STEM)</i>	54,29,750.00	11,00,000.00	65,29,750.00
<i>Grant-Number Theory (STEM)</i>	1,04,36,250.00	27,00,000.00	1,31,36,250.00
Grant-Advanced Research Facility for Theoretical Physics	16,09,02,000.00	4,45,00,000.00	20,54,02,000.00
<i>Grant-Centre for String Interactions (ARFTP)</i>	1,17,92,000.00	12,00,000.00	1,29,92,000.00
<i>Grant-Cluster for Strongly Correlated Systems (ARFTP)</i>	6,32,06,000.00	1,07,00,000.00	7,39,06,000.00
<i>Grant-Computing Facilities for Theoretical Physics (ARFTP)</i>	6,42,64,500.00	1,58,50,000.00	8,01,14,500.00
<i>Grant-Physics LAB for Integrated PhD (ARFTP)</i>	0.00	1,50,00,000.00	1,50,00,000.00
<i>Grant-Physics of Quantum Matter (ARFTP)</i>	89,09,000.00	3,90,000.00	92,99,000.00
<i>Grant-Quantum Computing & Information Processing (ARFTP)</i>	1,27,30,500.00	13,60,000.00	1,40,90,500.00
Grant-RECAPP, Neutrino Physics & Astrophysics	3,72,97,000.00	1,10,00,000.00	4,82,97,000.00
<i>Grant-Cosmology & High Energy Astrology (RECAPP)</i>	31,82,000.00	21,50,000.00	53,32,000.00
<i>Grant-Neutrino Physics and Particle Physics (RECAPP)</i>	1,07,99,000.00	25,00,000.00	1,32,99,000.00
<i>Grant-RECAPP (RECAPP)</i>	2,33,16,000.00	63,50,000.00	2,96,66,000.00
Grant-Expansion of HRI Campus-Purchase of Additional Land	1,00,000.00	0.00	1,00,000.00
Grant-Infrastructure Development (Non-Housing)	2,31,05,000.00	55,00,000.00	2,86,05,000.00
Grant-Infrastructure (Housing)	1,20,00,000.00	70,00,000.00	1,90,00,000.00
Grand Total	28,14,72,000.00	7,70,00,000.00	35,84,72,000.00



Annexure-B forming part of Schedule 1 of Balance Sheet as at 31st March 2018

XII Plan Grants Utilization

Plan Projects	As on 31-03-17	Year 17-18	As on 31-03-18
Scientific Information Retrieval Development	1,78,07,630.00	9,52,996.00	1,87,60,626.00
Special & Thematic Events in Mathematics	1,62,74,314.00	49,27,427.00	2,12,01,741.00
<i>Analysis & Geometry (STEM)</i>	18,00,279.00	8,80,743.00	26,81,022.00
<i>Explicit Class Field Theory (STEM)</i>	10,48,894.00	2,44,225.00	12,93,119.00
<i>Group Theory & Representation Theory (STEM)</i>	36,80,473.00	13,60,144.00	50,40,617.00
<i>Number Theory (STEM)</i>	97,44,668.00	24,42,315.00	1,21,86,983.00
Advanced Research Facility for Theoretical Physics	12,66,59,733.30	1,41,73,169.00	14,08,32,902.30
<i>Centre for String Interactions (ARFTP)</i>	89,59,740.00	9,13,685.00	98,73,425.00
<i>Cluster for Strongly Correlated Systems (ARFTP)</i>	5,35,39,670.00	8,57,930.00	5,43,97,600.00
<i>Computing Facilities for Theoretical Physics (ARFTP)</i>	4,79,73,180.06	55,56,784.00	5,35,29,964.06
<i>Physics LAB for Integrated PhD (ARFTP)</i>	0.00	39,83,355.00	39,83,355.00
<i>Physics of Quantum Matter (ARFTP)</i>	68,01,014.24	12,02,062.00	80,03,076.24
<i>Quantum Computing & Information Processing (ARFTP)</i>	93,86,129.00	16,59,353.00	1,10,45,482.00
RECAPP, Neutrino Physics & Astrophysics	2,84,99,138.50	48,44,935.00	3,33,44,073.50
<i>Cosmology & High Energy Astrology (RECAPP)</i>	17,78,175.00	3,70,054.00	21,48,229.00
<i>Neutrino Physics and Particle Physics (RECAPP)</i>	87,24,833.00	13,07,787.00	1,00,32,620.00
<i>RECAPP (RECAPP)</i>	1,79,96,130.50	31,67,094.00	2,11,63,224.50
Expansion of HRI Campus-Purchase of Additional Land	15,850.00	0.00	15,850.00
Infrastructure Development (Non-Housing)	1,03,37,520.00	52,40,954.00	1,55,78,474.00
Infrastructure (Housing)	6,29,693.00	44,84,989.00	51,14,682.00
Total	20,02,23,878.80	3,46,24,470.00	23,48,48,348.80

Objectwise break-up for each project at Annexure-C

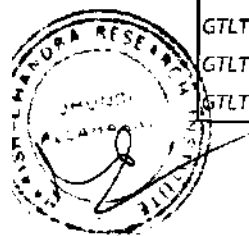
XII Plan Grants (Receipts - Utilisation) (A-B)	8,12,48,121.20	4,23,75,530.00	12,36,23,651.20
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Annexure-C forming part of Balance Sheet as at 31st March 2018
 XIIth Plan Utilisation - Projectwise & Objectwise Break-up

	As on 31-03-17	Year 17-18	As on 31-03-18
1. Scientific Information Retrieval Development (Library)	1,78,07,630.00	9,52,996.00	1,87,60,626.00
<i>Library-Machinery & Equipment</i>	3,87,006.00	39,842.00	4,26,848.00
<i>Library-Online Database</i>	18,41,130.00	0.00	18,41,130.00
<i>Library-Softwares</i>	12,19,256.00	1,14,713.00	13,33,969.00
<i>Library-Standing Series</i>	36,65,518.00	7,95,541.00	44,61,059.00
<i>Library-Supplies & Material</i>	1,03,35,698.00	0.00	1,03,35,698.00
<i>Library-Office Expense & Contingency</i>	3,59,022.00	2,900.00	3,61,922.00

2. Special and Thematic Events in Mathematics (STEM)	1,62,74,314.00	49,27,427.00	2,12,01,741.00
Analysis and Geometry	18,00,279.00	8,80,743.00	26,81,022.00
<i>Analysis & Geometry-Domestic Travel</i>	3,79,998.00	98,219.00	4,78,217.00
<i>Analysis & Geometry-Foreign Travel</i>	6,34,690.00	4,72,787.00	11,07,477.00
<i>Analysis & Geometry-Office Expense & Contingency</i>	17,619.00	4,598.00	22,217.00
<i>Analysis & Geometry-Consultancy & Meeting</i>	7,67,972.00	3,05,139.00	10,73,111.00
Explicit Class Field Theory	10,48,894.00	2,44,225.00	12,93,119.00
<i>Explicit Class Field Theory-Machinery & Equipment</i>	0.00	36,200.00	36,200.00
<i>Explicit Class Field Theory-Supplies & Material</i>	1,63,587.00	18,497.00	2,02,084.00
<i>Explicit Class Field Theory-Domestic Travel</i>	3,09,249.00	1,14,787.00	4,24,036.00
<i>Explicit Class Field Theory-Foreign Travel</i>	4,14,917.00	48,641.00	4,63,558.00
<i>Explicit Class Field Theory-Office Expense & Contingency</i>	3,436.00	0.00	3,436.00
<i>Explicit Class Field Theory-Consultancy & Meeting</i>	1,37,705.00	26,100.00	1,63,805.00
Group Theory & Representation Theory of Lie Algebra	36,80,473.00	13,60,144.00	50,40,617.00
<i>GTLT-Machinery & Equipment</i>	5,52,711.00	0.00	5,52,711.00
<i>GTLT-Supplies & Material</i>	27,898.00	0.00	27,898.00
<i>GTLT-Domestic Travel</i>	3,11,356.00	97,219.00	4,08,575.00
<i>GTLT-Foreign Travel</i>	11,46,592.00	9,92,193.00	21,38,785.00
<i>GTLT-Office Expense & Contingency</i>	2,45,244.00	0.00	2,45,244.00
<i>GTLT-Consultancy & Meeting</i>	13,96,672.00	2,70,732.00	16,67,404.00



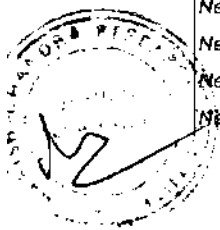
Number Theory	97,44,668.00	24,42,315.00	1,21,86,983.00
<i>Number Theory-Machinery & Equipment</i>	52,200.00	0.00	52,200.00
<i>Number Theory-Supplies & Material</i>	1,20,457.00	12,350.00	1,32,807.00
<i>Number Theory-Domestic Travel</i>	22,17,528.00	6,33,881.00	28,51,409.00
<i>Number Theory-Foreign Travel</i>	31,95,545.00	7,73,891.00	39,69,436.00
<i>Number Theory-Office Expense & Contingency</i>	12,33,656.00	1,98,651.00	14,32,307.00
<i>Number Theory-Consultancy & Meeting</i>	29,25,282.00	8,23,542.00	37,48,824.00

3. Advance Research Facility for Theoretical Physics (ARFTP)	12,66,59,733.30	1,41,73,169.00	14,08,32,902.30
Centre for String Interaction	89,59,740.00	9,13,685.00	98,73,425.00
<i>String Interaction-Machinery & Equipment</i>	14,72,299.00	0.00	14,72,299.00
<i>String Interaction-Supplies & Material</i>	2,03,490.00	760.00	2,04,250.00
<i>String Interaction-Domestic Travel</i>	14,44,204.00	2,69,615.00	17,13,819.00
<i>String Interaction-Foreign Travel</i>	14,83,907.00	58,515.00	15,42,422.00
<i>String Interaction-Office Expense & Contingency</i>	12,06,422.00	44,209.00	12,50,631.00
<i>String Interaction-Consultancy & Meeting</i>	31,49,418.00	5,40,586.00	36,90,004.00
Cluster for Strongly Correlated Systems	5,35,39,670.00	8,57,930.00	5,43,97,600.00
<i>Cluster for Strongly Co System-Machinery & Equipment</i>	3,89,54,178.00	26,550.00	3,89,80,728.00
<i>Cluster for Strongly Co System-Supplies & Material</i>	1,01,33,211.00	6,89,497.00	1,08,22,708.00
<i>Cluster for Strongly Co System-Major Works</i>	10,26,400.00	24,348.00	10,50,748.00
<i>Cluster for Strongly Co System-Salary</i>	13,29,192.00	98,000.00	14,27,192.00
<i>Cluster for Strongly Co System-Domestic Travel</i>	37,479.00	995.00	38,474.00
<i>Cluster for Strongly Co System-Office Expense & Contingency</i>	20,34,010.00	8,540.00	20,42,550.00
<i>Cluster for Strongly Co System-Consultancy & Meeting</i>	25,200.00	10,000.00	35,200.00
Computing Facilities for Theoretical Physics	4,79,73,180.06	55,56,784.00	5,35,29,964.06
<i>Computing Facilities-Machinery & Equipment</i>	2,07,93,712.75	4,72,843.00	2,12,66,555.75
<i>Computing Facilities-Supplies & Material</i>	1,67,94,525.00	50,63,331.00	2,18,57,856.00
<i>Computing Facilities-Major Works</i>	2,79,265.00	0.00	2,79,265.00
<i>Computing Facilities-Salary</i>	32,39,523.31	0.00	32,39,523.31
<i>Computing Facilities-Office Expense & Contingency</i>	68,43,379.00	20,610.00	68,63,989.00
<i>Computing Facilities-Consultancy & Meeting</i>	22,775.00	0.00	22,775.00
Physics LAB for Integrated PhD	0.00	39,83,355.00	39,83,355.00
<i>Physics LAB-Machinery & Equipment</i>	0.00	29,84,278.00	29,84,278.00



Physics Lab-Major Works	0.00	9,92,077.00	9,92,077.00
Physics LAB-Consultancy & Meeting	0.00	7,000.00	7,000.00
Physics of Quantum Matter	68,01,014.24	12,02,062.00	80,03,076.24
Physics of Quantum Matter-Machinery & Equipment	4,86,020.00	57,500.00	5,43,520.00
Physics of Quantum Matter-Supplies & Material	1,51,863.00	12,666.00	1,64,529.00
Physics of Quantum Matter-Domestic Travel	8,22,979.00	1,73,805.00	9,96,784.00
Physics of Quantum Matter-Foreign Travel	16,86,233.00	7,40,738.00	24,26,971.00
Physics of Quantum Matter-Office Expense & Contingency	7,71,367.00	7,525.00	7,78,892.00
Physics of Quantum Matter-Consultancy & Meeting	28,82,552.24	2,09,828.00	30,92,380.24
Quantum Computing & Information Processing	93,86,129.00	16,59,353.00	1,10,45,482.00
QIC-Machinery & Equipment	11,15,767.00	1,72,500.00	12,88,267.00
QIC-Supplies & Material	6,120.00	13,125.00	19,245.00
QIC-Domestic Travel	11,19,328.00	4,96,587.00	16,15,915.00
QIC-Foreign Travel	20,99,047.00	4,45,486.00	25,44,533.00
QIC-Office Expense & Contingency	14,73,005.00	1,300.00	14,74,305.00
QIC-Consultancy & Meeting	35,72,862.00	5,30,355.00	41,03,217.00

4. RECAPP, Neutrino Physics & Astrophysics (RECAPP)	2,84,99,138.50	48,44,935.00	3,33,44,073.50
Cosmology and High Energy Astrophysics	17,78,175.00	3,70,054.00	21,48,229.00
Cosmology & HE Astro-Machinery & Equipment	1,70,498.00	0.00	1,70,498.00
Cosmology & HE Astro-Supplies & Material	6,370.00	0.00	6,370.00
Cosmology & HE Astro-Domestic Travel	6,14,916.00	2,24,597.00	8,39,513.00
Cosmology & HE Astro-Foreign Travel	1,60,475.00	1,37,957.00	2,98,432.00
Cosmology & HE Astro-Office Expense & Contingency	1,71,961.00	0.00	1,71,961.00
Cosmology & HE Astro-Consultancy & Meeting	6,53,955.00	7,500.00	6,61,455.00
Neutrino Physics and Particle Astrophysics	87,24,833.00	13,07,787.00	1,00,32,620.00
Neutrino Physics-Machinery & Equipment	14,03,541.00	91,728.00	14,95,269.00
Neutrino Physics-Supplies & Material	9,77,775.00	45,346.00	10,23,121.00
Neutrino Physics-Salary	3,48,844.00	0.00	3,48,844.00
Neutrino Physics-Domestic Travel	9,77,201.00	1,78,377.00	11,55,578.00
Neutrino Physics-Foreign Travel	16,64,587.00	4,61,470.00	21,26,057.00
Neutrino Physics-Office Expense & Contingency	19,45,207.00	55,840.00	20,01,047.00
Neutrino Physics-Consultancy & Meeting	14,07,678.00	4,75,026.00	18,82,704.00



RECAPP	1,79,96,130.50	31,67,094.00	2,11,63,224.50
<i>RECAPP-Machinery & Equipment</i>	<i>79,21,378.00</i>	<i>0.00</i>	<i>79,21,378.00</i>
<i>RECAPP-Supplies & Material</i>	<i>29,40,361.50</i>	<i>9,38,658.00</i>	<i>38,79,019.50</i>
<i>RECAPP-Major Works</i>	<i>5,80,730.00</i>	<i>28,550.00</i>	<i>6,09,280.00</i>
<i>RECAPP-Salary</i>	<i>14,65,750.00</i>	<i>1,92,529.00</i>	<i>16,58,279.00</i>
<i>RECAPP-Domestic Travel</i>	<i>12,68,433.00</i>	<i>5,69,662.00</i>	<i>18,38,095.00</i>
<i>RECAPP-Foreign Travel</i>	<i>11,63,740.00</i>	<i>3,72,449.00</i>	<i>15,36,189.00</i>
<i>RECAPP-Office Expense & Contingency</i>	<i>6,95,678.00</i>	<i>93,843.00</i>	<i>7,89,521.00</i>
<i>RECAPP-Consultancy & Meeting</i>	<i>19,60,060.00</i>	<i>9,71,403.00</i>	<i>29,31,463.00</i>

5. Expansion of HRI Campus- Purchase of Additional Land	15,850.00	0.00	15,850.00
<i>Expansion of HRI Campus-Major Works</i>	<i>15,850.00</i>	<i>0.00</i>	<i>15,850.00</i>

6. Infrastructure Development (Non-Housing)	1,03,37,520.00	52,40,954.00	1,55,78,474.00
<i>Infrastructure Development-Machinery & Equipment</i>	<i>54,45,000.00</i>	<i>0.00</i>	<i>54,45,000.00</i>
<i>Infrastructure Development-Major Works</i>	<i>35,35,539.00</i>	<i>52,40,954.00</i>	<i>87,76,493.00</i>
<i>Infrastructure Development-Salary</i>	<i>13,54,131.00</i>	<i>0.00</i>	<i>13,54,131.00</i>
<i>Infrastructure Development-Office Expense & Contingency</i>	<i>2,850.00</i>	<i>0.00</i>	<i>2,850.00</i>

7. Infrastructure (Housing)	6,29,693.00	44,84,989.00	51,14,682.00
<i>Infrastructure Housing-Major Works</i>	<i>4,17,323.00</i>	<i>44,84,989.00</i>	<i>49,02,312.00</i>
<i>Infrastructure Housing-Office Expense & Contingency</i>	<i>2,12,370.00</i>	<i>0.00</i>	<i>2,12,370.00</i>
Total (1+2+3+4+5+6+7)	20,02,23,878.80	3,46,24,470.00	23,48,48,348.80



HARISH CHANDRA RESEARCH INSTITUTE, ALLAHABAD
SCHEDULE FORMING PART OF BALANCE SHEET AS AT 31ST MARCH, 2018

(Amount - Rs.)

SCHEDULE 3 - EARMARKED / ENDOWMENT FUNDS	FUND - WISE BREAK UP					TOTALS	
	Harish-Chandra Memorial Award	Infosys Foundation Fund	Infosys Chair Professorship Fund	Shamik Banerjee Memorial Award	Sutapa Sen Memorial Award	Current Year	Previous Year
a) <u>Opening balance of the funds</u>	10,20,000	5,05,72,003	5,00,00,000	10,92,061	13,46,277	10,40,30,341	5,44,58,788
b) <u>Additions to the Funds:</u>	1,40,738	35,40,577	33,26,735	60,604	85,850	71,54,504	5,40,50,252
i. Donations / grants	0	0	0	0	0	0	5,00,00,000
ii. Income from Investments made on account of funds	1,32,375	34,15,347	33,05,681	58,125	76,500	69,88,028	40,50,252
iii. Other additions (TDS refund)	8,363	1,25,230	21,054	2,479	9,350	1,66,476	0
TOTAL (a+b)	11,60,738	5,41,12,580	5,33,26,735	11,52,665	14,32,127	11,11,84,845	10,85,09,040
c) <u>Utilisation / Expenditure towards objectives of funds</u>	63,238	27,29,551	3,30,568	43,080	7,650	31,74,087	44,78,699
i. <u>Capital Expenditure</u>							
Fixed Assets	0	0	0	0	0	0	0
Others	0	0	0	0	0	0	0
<u>Total</u>	0	0	0	0	0	0	0
ii. <u>Revenue Expenditure</u>							
Awards and Fellowships etc.	50,000	23,88,016	0	37,268	0	24,75,284	40,73,673
Rent	0	0	0	0	0	0	0
Other Administrative expenses	0	0	0	0	0	0	0
TDS deducted on Deposits by Banks	13,238	3,41,535	3,30,568	5,812	7,650	6,98,803	4,05,026
<u>Total</u>	63,238	27,29,551	3,30,568	43,080	7,650	31,74,087	44,78,699
TOTAL (c)	63,238	27,29,551	3,30,568	43,080	7,650	31,74,087	44,78,699
NET BALANCE AS AT THE YEAR-END (a + b - c)	10,97,500	5,13,83,029	5,29,96,167	11,09,585	14,24,477	10,80,10,758	10,40,30,341



HARISH CHANDRA RESEARCH INSTITUTE, ALLAHABAD
SCHEDULE FORMING PART OF BALANCE SHEET AS AT 31ST MARCH, 2018

(Amount - Rs.)

SCHEDULE 4 - SECURED LOANS AND BORROWINGS:	Current Year		Previous Year	
1. Central Government	0.00	0.00	0.00	0.00
2. State Government (Specify)			0.00	0.00
3. Financial Institutions	0.00	0.00	0.00	0.00
a) Term Loans				
b) Interest accrued and due				
4. Banks:	0.00	0.00	0.00	0.00
a) Term Loans				
▶ Interest accrued and due				
b) Other Loans (specify)				
▶ Interest accrued and due				
5. Other Institutions and Agencies	0.00	0.00	0.00	0.00
6. Debentures and Bonds	0.00	0.00	0.00	0.00
7. Others (Specify)	0.00	0.00	0.00	0.00
TOTAL	0.00	0.00	0.00	0.00



HARISH CHANDRA RESEARCH INSTITUTE, ALLAHABAD
SCHEDULE FORMING PART OF BALANCE SHEET AS AT 31ST MARCH, 2018

SCHEDULE 5 - UNSECURED LOANS AND BORROWINGS:		(Amount - Rs.)	
		Current Year	Previous Year
1. Central Government		0.00	0.00
2. State Government (Specify)		0.00	0.00
3. Financial Institutions		0.00	0.00
4. Banks:			
a) Term Loans		0.00	0.00
b) Other Loans (specify)		0.00	0.00
5. Other Institutions and Agencies			
DST Projects		17,55,682.50	15,04,137.50
NBHM Projects		9,21,989.00	9,21,989.00
Swarna Jayanti Fellowships		2,50,277.00	2,50,277.00
Grant From Infosys Foundation		61,93,958.00	30,20,588.00
Contract for Acquisition of Research Services-DRDO		5,12,000.00	9,35,528.00
Inspire Faculty Award			
Inspire Faculty - Pratishruti Saha		6,89,810.00	6,15,051.00
Inspire Faculty - Umesh Vanktesh Dubey		3,27,234.00	5,72,548.00
JC Bose Fellowship to Dr.Ashoke Sen		15,63,804.00	0.00
Ramanujan Fellowship-Dr.Anshuman Maharana		6,15,607.00	7,97,798.00
CSIR		4,62,097.00	7,09,044.00
CEFIPRA Research Project		42,767.00	42,767.00
Science Education Program-Indian National Science Academy		24,850.00	24,850.00
TPSC Fund		38,643.00	38,643.00
IFCPAR Research Project (TP Pareek)		3,55,482.00	3,55,482.00
Science & Engineering Research Board (SERB)		4,48,968.00	0.00
6. Debentures and Bonds		0.00	0.00
7. Fixed Deposits		0.00	0.00
8. Others (Specify)		0.00	0.00
TOTAL		1,42,03,168.50	97,88,702.50

SCHEDULE 6 - DEFERRED CREDIT LIABILITIES:		Current Year	Previous Year
a) Acceptances secured by hypothecation of capital equipment and other assets		0.00	0.00
b) Others		0.00	0.00
TOTAL		0.00	0.00



HARISH CHANDRA RESEARCH INSTITUTE, ALLAHABAD
SCHEDULE FORMING PART OF BALANCE SHEET AS AT 31ST MARCH, 2018

(Amount - Rs.)

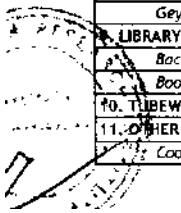
SCHEDULE 7 - CURRENT LIABILITIES AND PROVISIONS	Current Year		Previous Year	
A. CURRENT LIABILITIES				
1. Acceptances		1,46,679.00		3,00,03,538.00
Undisbursed Pay & Allowance (7CPC Arrear)	1,20,009.00		1,51,18,380.00	
Undisbursed Pay & Allowance (7CPC 30% Arrear)	26,670.00		1,48,85,158.00	
2. Sundry Creditors:				
a) For Goods		0.00		0.00
b) Others		6,55,23,907.45		4,75,47,522.45
Staff Accounts	17,72,475.80		73,05,948.80	
Parties Accounts	1,27,40,906.75		1,10,82,200.75	
Bills Payable	4,02,55,863.00		1,96,62,133.00	
Earnest Money Deposits	53,36,575.00		48,25,732.00	
Security Deposits	34,71,690.00		27,74,351.00	
Unclaimed bills, Sec & Earnest money & Others	19,46,396.90		18,97,156.90	
3. Advances Received		0.00		0.00
4. Interest accrued but not due on:		0.00		0.00
a) Secured Loans / borrowings	0.00		0.00	
b) Unsecured Loans / borrowings	0.00		0.00	
5. Statutory Liabilities:				
a) Overdue		0.00		0.00
b) Others		27,24,640.40		39,46,762.40
Group Insurance Contribution	12,169.00		8,429.00	
HRI-PF Control A/c	25,76,145.40		20,72,867.40	
NPS-Control A/c	91,503.00		16,79,661.00	
NPS-Employees Contribution	34,288.00		28,405.00	
TDS deducted at source-Parties	0.00		89,519.00	
TDS deducted at source-Staff	0.00		67,881.00	
CGST	5,267.50		0.00	
UGST	5,267.50		0.00	



SCHEDULE 7 - CURRENT LIABILITIES AND PROVISIONS	Current Year		Previous Year	
6. Other current Liabilities		6,57,570.00		5,68,497.00
Rajesh Gopakumar (L.S.P.S. Contribution)	4,72,240.00		2,67,864.00	
Rukmini Dey (L.S.P.S. Contribution)	1,85,330.00		2,30,110.00	
VR Tiwari (L.S.P.S. Contribution)	0.00		70,523.00	
7. Unutilized DAE Grants Recurring (Non-Plan)		1,84,33,812.90		96,73,779.87
Grant-in-aid released during the year	32,80,00,000.00		30,14,97,000.00	
Add: Unutilized balance of Grants as on 01st April	96,73,779.87		42,60,274.58	
Less: Amount Utilized for Establishment Expenses	-18,22,40,774.00		-18,30,04,818.00	
Less: Amount Utilized for Administrative Expenses	-13,69,99,192.97		-11,30,78,676.71	
TOTAL (A)		8,74,86,609.75		9,17,40,099.72
B. PROVISIONS				
1. For Taxation		0.00		0.00
2. Gratuity		6,51,75,483.00		5,79,82,316.00
3. Accumulated Leave Encashment		5,61,13,071.00		5,89,62,894.00
4. Superannuation / Pension		15,39,41,474.00		15,39,41,474.00
5. Trade Warranties / Claims		0.00		0.00
6. Others (Specify)		28,600.00		23,000.00
Audit Fee Payable	28,600.00		23,000.00	
TOTAL (B)		27,52,58,628.00		27,09,09,684.00
TOTAL (A + B)		36,27,45,237.75		36,26,49,783.72



SCHEDULE B - FIXED ASSETS												
DESCRIPTION	GROSS BLOCK				Depreciation Rates	DEPRECIATION & Depreciation Reserve					NET BLOCK	
	Cost / valuation As at beginning of the year	Additions during the year	Deductions during the year	Cost / valuation at the year-end		As at the beginning of the year	Depreciation Charged on value (Total Gross Block-Total Cumulative Dep. Reserve upto last year)	Depreciation for the year	Depreciation Reserve-reversed on sale of assets	Total Depreciation Reserve up to the Year-end	As at the Current year-end	As at the Previous year-end
A. FIXED ASSETS:												
1. LAND	1.00	0.00	0.00	1.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00
a) Freehold							0.00		0.00		1.00	1.00
b) Leasehold												
2. BUILDINGS	15,74,01,477.00	4,68,457.00	0.00	15,78,69,934.00		12,44,30,090.00	3,34,39,844.00	33,43,984.00	0.00	12,77,74,073.00	3,00,95,862.00	3,29,71,389.00
a) On Freehold Land	15,74,01,477.00	4,68,457.00		15,78,69,934.00	10%	12,44,30,089.00	3,34,39,844.00	33,43,984.00		12,77,74,073.00	3,00,95,862.00	3,29,71,389.00
b) On Leasehold Land											0.00	
c) Other Land											0.00	
d) Superstructures on Land not belonging to the entity											0.00	
3. PLANT MACHINERY & EQUIPMENT	3,27,88,791.00	1,66,949.00	0.00	3,29,55,740.00		2,42,64,350.00	86,91,390.00	13,03,708.00	0.00	2,55,68,058.00	73,87,682.00	85,24,441.00
AC & Stabilizers	1,57,08,471.00	86,815.00		1,57,95,286.00	15%	1,17,99,881.00	39,95,405.00	5,99,311.00		1,23,99,192.00	33,96,094.00	39,08,590.00
Elevator	28,40,000.00			28,40,000.00	15%	11,12,538.00	17,27,462.00	2,59,119.00		13,71,657.00	14,68,343.00	17,27,462.00
Fire Alarm System	8,57,645.00	80,134.00		9,37,779.00	15%	5,97,190.00	3,40,589.00	51,088.00		6,48,278.00	2,89,501.00	2,60,455.00
Fire Extinguishers	4,88,708.00			4,88,708.00	15%	3,71,294.00	1,17,414.00	17,612.00		3,88,906.00	99,802.00	1,17,414.00
Generator Sets	1,00,20,602.00			1,00,20,602.00	15%	76,90,337.00	23,30,271.00	3,49,541.00		80,39,872.00	19,80,730.00	23,30,271.00
Telescope	27,31,044.00			27,31,044.00	15%	25,54,781.00	1,76,263.00	26,439.00		25,81,220.00	1,49,824.00	1,76,263.00
Scientific Equipments	1,42,321.00			1,42,321.00	15%	1,38,335.00	3,986.00	598.00		1,38,933.00	3,388.00	3,986.00
4. VEHICLES	5,08,165.00	7,66,028.00	4,79,417.00	7,94,776.00		4,80,242.00	3,14,534.00	1,15,805.00	4,57,500.00	1,38,548.00	6,56,228.00	27,923.00
Car-Maruti	4,79,417.00		4,79,417.00	0.00	15%	4,57,500.00	-4,57,500.00	0.00	4,57,500.00	0.00	0.00	21,917.00
Bicycles & Rickshaw Trolley	28,748.00	15,750.00		44,498.00	15%	22,742.00	21,756.00	3,263.00		26,005.00	18,493.00	6,006.00
Car-Dzire	0.00	7,50,278.00		7,50,278.00	15%	7,50,278.00	7,50,278.00	1,12,542.00		1,12,542.00	6,37,736.00	0.00
5. FURNITURE, FIXTURES	2,36,80,080.00	5,19,953.00	0.00	2,42,00,033.00		1,70,13,616.00	71,86,417.00	7,18,642.00	0.00	1,77,32,258.00	64,67,775.00	66,86,464.00
Furniture & Fixture-Office	2,27,35,459.00	5,19,953.00		2,32,55,412.00	10%	1,63,88,360.00	68,67,052.00	6,86,705.00		1,70,75,065.00	61,80,347.00	63,47,099.00
Furniture & Fixture-Guest House	9,44,621.00			9,44,621.00	10%	6,25,256.00	3,19,365.00	31,937.00		6,57,193.00	2,87,428.00	3,19,365.00
6. OFFICE EQUIPMENT	98,81,389.00	1,78,560.00	0.00	1,00,59,949.00		50,89,333.00	49,70,616.00	7,45,593.00	0.00	58,34,926.00	42,25,023.00	47,92,056.00
Electronic Typewriter	1,74,422.00			1,74,422.00	15%	1,36,838.00	37,584.00	5,638.00		1,42,476.00	31,946.00	37,584.00
Fax Machine	8,120.00			8,120.00	15%	6,239.00	1,881.00	282.00		6,521.00	1,599.00	1,881.00
Projector	23,56,556.00	1,78,560.00		25,35,116.00	15%	15,81,578.00	9,53,538.00	1,43,031.00		17,24,609.00	8,10,507.00	7,74,978.00
Xerox Machine	26,83,628.00			26,83,628.00	15%	19,35,324.00	7,48,304.00	1,12,246.00		20,47,570.00	6,26,056.00	7,48,304.00
Telephone Equipments & Appt.	46,58,663.00			46,58,663.00	15%	14,29,354.00	32,29,309.00	4,84,396.00		19,13,750.00	27,44,913.00	32,29,309.00
7. COMPUTER / PERIPHERALS	29,74,78,269.00	22,01,555.00	4,97,032.00	29,91,82,792.00		27,50,02,718.00	2,41,80,074.00	1,45,08,045.00	4,83,653.00	28,90,27,110.00	1,01,55,682.00	2,24,75,551.00
Cluster Computer - Xth Plan	2,15,73,474.00			2,15,73,474.00	60%	2,15,63,259.00	10,215.00	6,129.00		2,15,69,388.00	4,086.00	10,215.00
Cluster Computer - Xth Plan	4,06,84,085.00			4,06,84,085.00	60%	3,77,65,572.00	29,18,513.00	17,51,108.00		3,95,16,680.00	11,67,405.00	29,18,513.00
Computers & Peripherals	19,67,55,963.00	10,63,186.00		19,78,19,149.00	60%	17,91,37,026.00	1,86,82,121.00	1,12,09,273.00		19,03,46,301.00	74,72,848.00	1,76,18,935.00
U.P.S. & Batteries	1,99,93,454.00	10,69,410.00	4,97,032.00	2,05,65,832.00	60%	1,95,95,088.00	9,70,744.00	5,82,446.00	4,83,653.00	1,96,93,881.00	8,71,951.00	3,98,366.00
Software	1,84,71,293.00	68,959.00		1,85,40,252.00	60%	1,69,41,771.00	15,98,481.00	9,59,089.00		1,79,00,860.00	6,39,392.00	15,29,522.00
8. ELECTRIC INSTALLATIONS	2,59,75,819.00	68,03,775.00	0.00	3,27,79,594.00		1,94,45,545.00	1,33,34,049.00	14,14,337.00	0.00	2,08,59,882.00	1,19,19,712.00	65,30,274.00
Electrical Fittings	2,46,07,921.00	68,03,775.00		3,14,11,696.00	10%	1,81,93,267.00	1,32,18,429.00	13,21,843.00	0.00	1,95,15,110.00	1,18,96,586.00	64,14,654.00
Solar lights	5,33,349.00			5,33,349.00	80%	5,33,345.00	4.00	1.00		5,33,346.00	3.00	4.00
Geysers	8,34,549.00			8,34,549.00	15%	7,18,933.00	1,15,616.00	92,493.00		8,11,426.00	23,123.00	1,15,616.00
9. LIBRARY BOOKS	27,79,22,506.00	9,55,983.00	0.00	27,88,78,489.00		22,56,05,813.00	5,32,72,676.00	1,33,18,169.00	0.00	23,89,23,982.00	3,99,54,507.00	5,23,16,693.00
Back Vol. Of Journal	14,49,10,261.00	0.00		14,49,10,261.00	25%	10,54,06,073.00	3,95,04,188.00	98,76,047.00	0.00	11,52,82,120.00	2,96,28,141.00	3,95,04,188.00
Books & Journal	13,30,12,245.00	9,55,983.00		13,39,68,228.00	25%	12,01,99,740.00	1,37,68,488.00	34,42,122.00		12,36,41,862.00	1,03,26,366.00	1,28,12,505.00
10. THEBEWELLS & W.SUPPLY	0.00	0.00	0.00	0.00		0.00	0.00	0.00		0.00	0.00	0.00
11. OTHER FIXED ASSETS	1,13,75,027.00	8,65,838.00	5,97,300.00	1,16,43,565.00		80,72,233.00	35,71,332.00	5,67,310.00	3,46,496.00	82,93,047.00	33,50,518.00	33,02,794.00
Coolers	11,02,686.00			11,02,686.00	15%	8,59,636.00	2,43,050.00	36,458.00		8,96,094.00	2,06,592.00	2,43,050.00



DESCRIPTION	GROSS BLOCK				DEPRECIATION & Depreciation Reserve						NET BLOCK	
	Cost / valuation As at beginning of the year	Additions during the year	Deductions during the year	Cost / valuation at the year-end	Depreciation Rates	As at the beginning of the year	Depreciation Charged on value (Total Gross Block-Total Cumulative Dep. Reserve upto last year)	Depreciation for the year	Depreciation Reserve-reversed on sale of assets	Total Depreciation Reserve up to the Year-end	As at the Current year-end	As at the Previous year-end
Kitchen Equipments	14,34,681.00	17,775.00		14,52,456.00	15%	11,11,127.00	3,41,329.00	51,199.00		11,62,326.00	2,90,130.00	3,23,554.00
Refrigerators	9,25,978.00	65,380.00	54,000.00	9,37,358.00	15%	6,21,245.00	3,16,113.00	79,028.00	30,040.00	6,70,233.00	2,67,125.00	3,04,733.00
Television	4,10,449.00	97,290.00		5,07,739.00	15%	3,60,005.00	1,47,734.00	22,160.00	33,493.00	3,48,672.00	1,59,067.00	50,444.00
Room Heaters	2,11,844.00			2,11,844.00	15%	1,72,482.00	39,362.00	5,904.00		1,78,386.00	33,458.00	39,362.00
Washing Machine	4,35,885.00	14,990.00	37,400.00	4,13,475.00	15%	2,45,863.00	1,67,612.00	25,142.00	25,410.00	2,45,595.00	1,67,880.00	1,90,072.00
Water Filter & Aqua guards	7,38,247.00	1,40,000.00	18,000.00	8,60,247.00	15%	5,26,508.00	3,33,739.00	50,061.00	4,995.00	5,71,574.00	2,88,673.00	2,11,739.00
Bar Coding & Security Equip.	12,73,870.00			12,73,870.00	25%	11,88,294.00	85,576.00	12,836.00		12,01,130.00	72,740.00	85,576.00
Audio/Video Equipemnts	27,40,288.00	4,72,843.00	4,87,900.00	27,25,231.00	15%	13,17,818.00	14,07,413.00	2,11,112.00	2,52,558.00	12,76,372.00	14,48,859.00	14,22,470.00
Tullu Pump	1,75,585.00	57,560.00		2,33,145.00	15%	1,39,182.00	93,963.00	14,094.00		1,53,276.00	79,869.00	36,403.00
Gym. Equipments	2,38,873.00			2,38,873.00	15%	1,53,139.00	85,734.00	12,860.00		1,65,999.00	72,874.00	85,734.00
Health Center Equipment	3,44,569.00			3,44,569.00	15%	2,23,160.00	1,21,409.00	18,211.00		2,41,371.00	1,03,198.00	1,21,409.00
Misc. Equipments	13,42,072.00			13,42,072.00	15%	11,53,774.00	1,88,298.00	28,245.00		11,82,019.00	1,60,053.00	1,88,298.00
TOTAL A	83,70,11,524.00	1,29,27,098.00	15,73,749.00	84,83,64,873.00		69,94,03,940.00	14,89,60,932.00	3,60,35,593.00	12,87,649.00	73,41,51,884.00	11,42,12,989.00	13,76,07,585.00
Rounding Off												-2.72
PREVIOUS YEAR	77,70,70,772.94	6,16,91,046.17	17,50,297.00	83,70,11,522.11		64,17,59,452.34				69,94,03,939.83	13,76,07,582.28	13,53,11,320.60
B. CAPITAL WORK-IN-PROGRESS:												
Admin Building under Construction											85,45,811.81	85,45,811.81
Community Centre Annexe under Construction											37,01,880.31	37,01,880.31
Engineering Section Building under Construction											87,80,508.98	87,80,508.98
Hostel Building under Construction											2,68,21,828.90	2,68,21,828.90
TOTAL B											4,78,50,030.00	4,78,50,030.00

Honble High Court of Allahabad, UP Stay on constructions near Ganga river. Construction is held up.

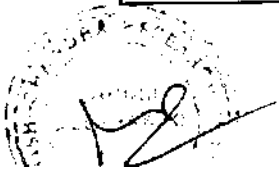


HARISH CHANDRA RESEARCH INSTITUTE, ALLAHABAD
SCHEDULE FORMING PART OF BALANCE SHEET AS AT 31ST MARCH, 2018

(Amount - Rs.)

SCHEDULE 9 - INVESTMENTS FROM EARMARKED / ENDOWMENT FUNDS	Current Year	Previous Year
1. In Government Securities		
FDR with BoB (Harish Chandra Memorial Award)	10,00,000.00	10,00,000.00
FDR with BoB (Infosys Chair Professorship)	5,00,00,000.00	0.00
FDR with BoB (Infosys Foundation Fund)	5,00,00,000.00	5,25,00,000.00
FDR with BoB (Shamik Banerjee Memorial Award)	10,00,000.00	10,00,000.00
FDR with BoB (Sutapa Sen Memorial Award)	12,00,000.00	12,00,000.00
2. Other approved Securities	0.00	0.00
3. Shares	0.00	0.00
4. Debentures and Bonds	0.00	0.00
5. Subsidiaries and Joint Ventures	0.00	0.00
6. Others (to be specified)	0.00	0.00
TOTAL	10,32,00,000.00	5,57,00,000.00

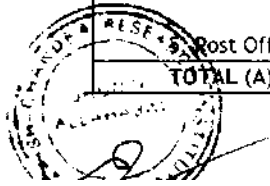
SCHEDULE 10 - INVESTMENT - OTHERS	Current Year	Previous Year
1. In Government Securities	0.00	0.00
FDR with SBI (Mehta Group)	22,39,187.00	22,39,187.00
Short Term Deposits with BoB	13,75,42,694.00	8,22,85,926.00
2. Other approved Securities	0.00	0.00
3. Shares	0.00	0.00
4. Debentures and Bonds	0.00	0.00
5. Subsidiaries and Joint Ventures	0.00	0.00
6. Others (to be specified)	0.00	0.00
TOTAL	13,97,81,881.00	8,45,25,113.00



HARISH CHANDRA RESEARCH INSTITUTE, ALLAHABAD
SCHEDULE FORMING PART OF BALANCE SHEET AS AT 31ST MARCH, 2018

(Amount - Rs.)

SCHEDULE 11 - CURRENT ASSETS, LOANS, ADVANCES ETC.	Current Year		Previous Year	
A. CURRENT ASSETS:				
1. <u>Inventories:</u>				
a) Stores and Spares		0.00		0.00
b) Loose Tools		0.00		0.00
c) Stock-in-trade		0.00		0.00
Finished Goods	0.00		0.00	
Work-in-progress	0.00		0.00	
Raw Materials	0.00		0.00	
2. <u>Sundry Debtors:</u>				
a) Debts Outstanding for a period exceeding six months		0.00		0.00
3. <u>Cash balances in hand</u> (including cheques / drafts and imprest)		1,825.00		6,055.00
Cash in hand	1,825.00		6,055.00	
4. <u>Bank Balances:</u>				
a) <u>With Scheduled Banks:</u>		15,74,72,438.25		19,80,76,677.24
On Current Accounts				
S.B.I. (M.B.) Current A/c	7,21,810.47		7,22,459.47	
On Deposit Accounts (includes margin money)	0.00		0.00	
On Savings Accounts				
Bank of Baroda - 30070100006893 (A/c 101)	6,46,15,373.13		10,78,51,135.53	
Bank of Baroda - 30070100006902 (A/c 102)	6,73,62,920.41		1,38,28,577.00	
Bank of Baroda - 30070100011078 (A/c 108)	1,48,31,193.64		1,94,44,991.64	
Bank of Baroda - 30070100011079 (A/c 109)	41,42,608.85		30,07,169.85	
HRI Endowments Account - 30070100015151	55,91,654.75		5,09,79,448.75	
NPS-Bank Account - 30070100012526	2,06,877.00		22,42,895.00	
b) <u>With non-Scheduled Banks:</u>		0.00		0.00
On Current Accounts				
On Deposit Accounts (includes margin money)				
On Savings Accounts				
Post Office-Savings Accounts		0.00		0.00
TOTAL (A)		15,74,74,263.25		19,80,82,732.24



SCHEDULE 11 - CURRENT ASSETS, LOANS, ADVANCES ETC. (Contd.)

B. LOANS, ADVANCES AND OTHER ASSETS

1. Loans:

- a) Staff
- b) Other Entities engaged in activities / objectives similar to that of the Entity
- c) Other (specify)

2. Advances and other amounts recoverable in cash or in kind or for value to be received:

- a) On Capital Account
- b) Prepayments

Advances for Journals

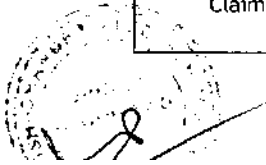
- Allahabad Mathematical Society (Adv)
- Alliance Books Suppliers (Pvt) Ltd (Adv)
- Allied Pub.Subs.Agency (Adv)
- Calcutta Mathematical Society (Adv)
- Cyber Media (India) Ltd (Adv)
- D.S. Information Services Pvt. Ltd (Adv)
- D.S. Subscription Agency (Adv)
- Duke University Press (Adv)
- Globe Publications. N.Delhi (Adv)
- IGroup Infotech India Pvt Ltd (Adv)
- Indian Academy of Science (Adv)
- Indian Mathematical Society (Adv)
- Institute of Mathematical Sciences (Adv)
- Institute of Physics Publishing Ltd (Adv)
- International Subscription Agency (Adv)
- IQ Technologies and Services P Ltd (Adv)
- Lakshmi Periodicals & Books Pvt Ltd (Adv)
- Macmillan Publishers Ltd (Adv)
- M/s JSTOR USA (Adv)
- Narosa Information Services (Adv)
- Society for Environmental Communications
- Springer Customer Service Centre GmbH
- Total I.T. Solution (Adv)

Current Year

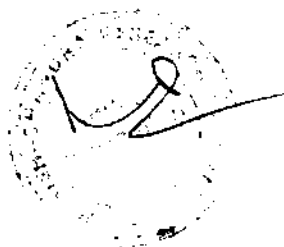
Previous Year

		0.00	0.00
		0.00	0.00
		0.00	0.00
		0.00	0.00
		0.00	0.00
	2,15,25,165.31		2,35,69,293.00
8,250.00		9,250.00	
1,47,055.00		1,60,915.00	
38,74,919.44		51,53,205.00	
3,250.00		3,250.00	
272.92		3,275.00	
20,87,493.12		17,10,904.22	
12,68,235.00		11,13,004.00	
0.00		91,818.00	
19,69,851.58		19,85,943.38	
2,54,363.00		2,50,085.00	
11,858.33		7,800.00	
3,000.00		1,000.00	
0.00		14,722.00	
11,708.48		17,34,348.00	
72,50,146.72		71,71,405.84	
7,600.00		6,000.00	
9,89,859.49		8,32,853.88	
0.00		1,75,278.00	
0.00		21,190.00	
17,12,036.00		17,87,012.00	
1,236.67		0.00	
3,87,605.00		70,006.00	
15,36,424.56		12,66,027.68	

SCHEDULE 11 - CURRENT ASSETS, LOANS, ADVANCES ETC. (Contd.)	Current Year		Previous Year	
B. LOANS, ADVANCES AND OTHER ASSETS (Contd.)				
c) Others				
Abroad Travel Advance		5,92,500.00		7,44,325.00
Travel Advance		1,85,675.00		1,47,356.00
LTC Advance		1,10,300.00		23,000.00
Festival Advance		0.00		5,850.00
Medical Advance		1,22,015.00		0.00
Vehicle Advance		46,441.00		45,721.00
R.P.Sharma (Vehicle Adv.)	21,000.00		22,500.00	
V.P.Tiwari(Vehcle Adv.)	20,172.00		20,172.00	
Interest Accrued on Loans-Vehicle	5,269.00		3,049.00	
Imprest Accounts		-72,600.00		0.00
Ajay Srivastava	-1,428.00		0.00	
RP Sharma	-71,172.00		0.00	
Deposits (Asset)		69,79,987.67		75,88,669.67
Fixed Deposits-Securities(in Hand)	40,76,307.00		46,84,989.00	
Security With Balmer Lawrie & Co. Ltd.	25,000.00		25,000.00	
Security With Gas Service	39,900.00		39,900.00	
Security With Telephone Deptt.	2,64,580.67		2,64,580.67	
Security With UPSEB	25,74,200.00		25,74,200.00	
d) Postage in Hand (Franking Machine)		2,286.12		2,286.12
3. Income Accrued:				
a) On Investments from Earmarked / Endowment Funds		0.00		0.00
b) On Investments - Others		1,11,37,433.00		44,39,703.00
Interest Accrued on Investments	14,26,825.00		11,46,831.00	
Interest Accrued on Short Term Dep.with Banks	97,10,608.00		32,92,872.00	
c) On Loans and Advances		0.00		0.00
d) Others (includes income due but unrealised)		0.00		0.00
4. Claims Receivable				
Claims Receivables (Staff)		5,27,159.00		93,992.00
Claims Receivables (Parties)		6,12,088.00		5,47,162.00



SCHEDULE 11 - CURRENT ASSETS, LOANS, ADVANCES ETC. (Contd.)		Current Year		Previous Year	
B. LOANS, ADVANCES AND OTHER ASSETS (Contd.)					
Amount Recoverable Against Completed Projects/scheme			3,90,430.00		2,90,430.00
Finance Officer, H.N.B. Garhwal University	40,000.00			40,000.00	
Grant Receivable-CSIR (ICCGNFRT 2017)	1,00,000.00			0.00	
Grant Receivable-NBHM (Krishnendu Gongopadhyay)	47,533.00			47,533.00	
Grant Receivable-NBHM (PROF. JOSEPH SAMUEL)	17,030.00			17,030.00	
NBHM Fellowships	1,85,867.00			1,85,867.00	
Payments Against Ongoing Sponsored Projects/Schemes			8,82,895.00		6,36,812.00
ATI (DAE, Mumbai)	0.00			24,530.00	
Grant Receivable-IGCAR Kalpakkam	1,17,129.00			0.00	
Grant Receivable-JC Bose Fellowship (Dr Ashoke Sen)	60,000.00			0.00	
Indian Institute of Technology-Gauhati	30,000.00			30,000.00	
International Conference "B Physics at the LHC"	593.00			593.00	
ISCQI-2008-Bhubaneswar	25,000.00			25,000.00	
JEST Examination Expenses (Recoverable)	5,94,173.00			5,00,689.00	
Registrar IIT Kanpur	6,000.00			6,000.00	
Registrar, IIT, Roorkee	50,000.00			50,000.00	
TOTAL (B)			4,30,41,775.10		3,81,34,599.79
TOTAL (A + B)			20,05,16,038.35		23,62,17,332.03



HARISH CHANDRA RESEARCH INSTITUTE, ALLAHABAD
SCHEDULE FORMING PART OF INCOME AND EXPENDITURE FOR THE PERIOD 01-04-17 TO 31-03-18

(Amount - Rs.)

SCHEDULE 12 - INCOME FROM SALES / SERVICES	Current Year	Previous Year
1) Income from Sales		
a) Sale of Finished Goods	0.00	0.00
b) Sale of Raw Material	0.00	0.00
c) Sale of Scraps	0.00	4,82,805.00
2) Income from Services		
a) Labour and Processing Charges	0.00	0.00
b) Professional / Consultancy Services	0.00	0.00
c) Agency Commission and Brokerage	0.00	0.00
d) Maintenance Services (Equipment / Property)	0.00	0.00
e) Others (Specify)		
Receipts from Canteen	10,19,774.00	9,46,416.00
Receipts from Guest House	34,22,647.00	29,34,796.00
Misc. Receipts from Penalties / LD Clause	1,54,303.00	7,65,519.75
TOTAL	45,96,724.00	51,29,536.75

SCHEDULE 13 - GRANTS / SUBSIDIES	Current Year	Previous Year
(Irrevocable Grants & Subsidies Received)		
1) Central Government	32,80,00,000.00	30,14,97,000.00
2) State Government(s)	0.00	0.00
3) Government Agencies	0.00	0.00
4) Institutions / Welfare Bodies	0.00	0.00
5) International Organisations	0.00	0.00
6) Others (Specify)	0.00	0.00
TOTAL	32,80,00,000.00	30,14,97,000.00



HARISH CHANDRA RESEARCH INSTITUTE, ALLAHABAD
SCHEDULE FORMING PART OF INCOME AND EXPENDITURE FOR THE PERIOD 01-04-17 TO 31-03-18

(Amount - Rs.)

SCHEDULE 14 - FEES / SUBSCRIPTIONS	Current Year	Previous Year
1) Entrance Fees	0.00	0.00
2) Annual Fees / Subscriptions	0.00	0.00
3) Seminar / Program Fees	0.00	0.00
4) Consultancy Fees	0.00	0.00
5) Others (Specify)	0.00	0.00
TOTAL	0.00	0.00
Note - Accounting Policies towards each item are to be disclosed		

	Investment from Earmarked Fund		Investment - Others	
	Current Year	Previous Year	Current Year	Previous Year
SCHEDULE 15 - INCOME FROM INVESTMENTS				
(Income on Invest. From Earmarked / Endowment Funds transferred to Funds)				
1) Interest				
a) On Govt. Securities	0.00	0.00	0.00	0.00
b) Other Bonds / Debentures	0.00	0.00	0.00	0.00
2) Dividends:				
a) On Shares	0.00	0.00	0.00	0.00
b) On Mutual Fund Securities	0.00	0.00	0.00	0.00
3) Rents	0.00	0.00	0.00	0.00
4) Others (Specify) Interest on Fixed Deposits with Banks	69,88,028.00	40,50,252.00	0.00	0.00
TOTAL	69,88,028.00	40,50,252.00	0.00	0.00
TRANSFERRED TO EARMARKED / ENDOWMENT FUNDS	-69,88,028.00	-40,50,252.00		



HARISH CHANDRA RESEARCH INSTITUTE, ALLAHABAD
SCHEDULE FORMING PART OF INCOME AND EXPENDITURE FOR THE PERIOD 01-04-17 TO 31-03-18

(Amount - Rs.)

SCHEDULE 16 - INCOME FROM ROYALTY, PUBLICATION ETC.	Current Year	Previous Year
1) Income from Royalty	0.00	0.00
2) Income from Publications	0.00	0.00
3) Others (Specify)	0.00	0.00
TOTAL	0.00	0.00
SCHEDULE 17 - INTEREST EARNED	Current Year	Previous Year
1) On Term Deposits:		
a) With Scheduled Banks	80,34,929.00	38,06,060.00
b) With Non-Scheduled Banks	0.00	0.00
c) With Institutions	0.00	0.00
d) Others		
On Security Deposit (UPPCL)	1,98,368.00	2,30,976.00
2) On Savings Accounts:		
a) With Scheduled Banks	13,57,512.00	59,11,126.00
b) With Non-Scheduled Banks	0.00	0.00
c) Post Office Savings Accounts	0.00	0.00
d) Others	0.00	0.00
3) On Loans:		
a) Employees / Staff	2,220.00	5,660.00
b) Others	0.00	0.00
4) Interest on Debtors and Other Receivables	0.00	0.00
TOTAL	95,93,029.00	99,53,822.00
Note - Tax deducted at source to be indicated	7,56,623.00	3,80,608.00



HARISH CHANDRA RESEARCH INSTITUTE, ALLAHABAD
SCHEDULE FORMING PART OF INCOME AND EXPENDITURE FOR THE PERIOD 01-04-17 TO 31-03-18

(Amount - Rs.)

SCHEDULE 18 - OTHER INCOME	Current Year	Previous Year
1) Profit on Sale / disposal of Assets:		
a) Owned assets	0.00	0.00
b) Assets acquired out of grants, or received free of cost	0.00	46,748.00
2) Export Incentives realized	0.00	0.00
3) Fees for Miscellaneous Services		
Licence fees & Elect. from rented buildings	13,92,274.01	9,94,666.00
4) Miscellaneous Income		
Firms Registration Fee	2,000.00	2,500.00
Misc. Receipts	2,52,989.00	1,82,050.00
RTI Receipts	88.00	40.00
Sale of Tenders	39,500.00	34,040.00
Xeroxing Receipts	223.00	1,095.00
Recovery of License fees & Accomodation charges	5,14,667.00	5,60,462.00
Recovery of Cable TV charges	40,200.00	48,300.00
Recovery of Personal Transport	91,571.00	1,02,469.00
Recovery of Telephone charges	16,678.00	5,308.00
Recovery of Transport charges	1,63,886.00	1,58,642.00
Leave Salary Contribution	2,85,244.00	0.00
User Charges	87,226.00	0.00
Water Charges	20,950.00	0.00
TOTAL	29,07,496.01	21,36,320.00

SCHEDULE 19 - INCREASE / (DECREASE) IN STOCK OF FINISHED GOODS & WORK IN PROGRESS	Current Year	Previous Year
a) Closing Stock		
▶ Finished Goods	0.00	0.00
▶ Work-in-progress	0.00	0.00
b) Less: Opening Stock		
▶ Finished Goods	0.00	0.00
▶ Work-in-progress	0.00	0.00
TOTAL	0.00	0.00



(Amount - Rs.)

SCHEDULE 20 - ESTABLISHMENT EXPENSES	Current Year	Previous Year
a) Salaries and Wages		
Salary	9,42,21,552.00	7,85,45,619.00
Fellowship	3,93,57,828.00	4,09,05,844.00
PRIS	1,56,63,966.00	1,40,18,521.00
Pension	69,22,368.00	39,17,037.00
b) Allowances and Bonus		
Professional Update Allowance (Academic)	9,15,000.00	11,21,250.00
Update Allowance (Admin)	2,02,500.00	2,31,250.00
Children Education Allowance	5,77,178.00	5,70,900.00
EL Encashment (LTC)	5,24,335.00	3,98,675.00
Leave Travel Concession	5,85,922.00	3,37,963.00
c) Contribution to Provident Fund (CPF)	0.00	0.00
d) Contribution to Other Fund (specify)	0.00	0.00
NPS	42,57,088.00	32,33,355.00
e) Staff Welfare Expenses		
Health Centre Expenses	26,68,001.00	25,23,318.00
Employees' Medical Benefits	3,85,700.00	17,08,269.00
f) Expenses on Employees' Retirement and Terminal Benefits		
Commutation of Pension	51,33,266.00	56,97,650.00
EL Encashment on Retirement	39,61,213.00	23,01,539.00
Gratuity	33,23,724.00	21,40,183.00
TA to Retiring Employees	84,187.00	0.00
g) Others (Specify)		
Honarium	6,09,000.00	3,81,251.00
Contingency Grant to SRFs / JRFs	28,47,946.00	30,29,055.00
7th CPC Arrears	0.00	2,16,06,562.00
Expenses Earlier Years	0.00	3,36,577.00
TOTAL	18,22,40,774.00	18,30,04,818.00



HARISH CHANDRA RESEARCH INSTITUTE, ALLAHABAD
SCHEDULE FORMING PART OF INCOME AND EXPENDITURE FOR THE PERIOD 01-04-17 TO 31-03-18

(Amount - Rs.)

SCHEDULE 21 - OTHER ADMINISTRATIVE EXPENSES ETC.	Current Year	Previous Year
a) Purchases		
Computer & Peripherals (Recurring)	8,35,586.00	7,08,004.00
Purchase of Capital Items (Mach/Equip/Motor Car etc.)	7,55,067.00	6,72,291.00
Purchase of Capital Items (Office Car)	7,50,278.00	0.00
Furniture & Fixtures	81,566.00	10,398.00
Store Purchase (Supplies & Materials)	10,35,294.00	7,93,920.00
b) Labour and processing expenses		
Emergency Duty Allowance	68,600.00	83,000.00
Overtime	2,800.00	14,900.00
c) Cartage and Carriage Inwards	0.00	0.00
d) Electricity and power	2,75,97,987.00	2,58,21,920.00
e) Water Charges	0.00	0.00
f) Insurance	0.00	0.00
g) Repairs and maintenance		
Air Conditioner Maintenance	21,57,794.00	20,17,806.00
Aqua Guard Maintenance	0.00	94,740.00
Civil Maintenance	20,65,632.00	23,31,173.00
Computer Maintenance	3,49,383.00	5,32,158.00
Electrical Installations Maintenance	22,57,420.00	13,04,162.00
Equipment Maintenance	1,23,879.00	8,35,669.00
Fire Extinguisher Maintenance	2,50,639.00	83,616.00
Gas Bank Maintenance	18,000.00	21,450.00
Generator Maintenance	23,56,634.00	20,28,053.00
Lawns Maintenance	13,42,838.00	12,31,321.00
Photocopier Maintenance	34,346.00	48,120.00
Security Services Maintenance	1,58,01,678.00	1,19,87,550.00
Swimming Pool Maintenance	2,34,408.00	36,700.00
Watch & Ward and House-keeping services	2,25,62,691.00	2,07,92,193.00
h) Excise Duty	0.00	0.00



SCHEDULE 21 - OTHER ADMINISTRATIVE EXPENSES ETC. (Contd...)	Current Year	Previous Year
i) Rent, Rates and Taxes		
Rent & Electricity Charges of Trivenipuram Hostel	4,38,182.00	4,55,597.00
Rent & Electricity Charges of 10 KG Marg City Guest House	2,38,496.00	2,41,607.00
Rent & Electricity Charges of Jhunki Hostel	3,85,064.00	3,80,597.00
j) Vehicles Running and Maintenance		
Renting of Vehicles	52,02,441.00	44,70,235.00
Insurance of Car	0.00	3,085.00
Petrol expense of Car	68,024.00	76,666.00
Repair & Maintenance of Car	8,960.00	15,963.00
k) Postage, Telephone and Communication Charges		
E-mail & Internet Charges	2,09,864.00	4,89,058.00
Newspaper & Periodicals	63,059.00	60,017.00
Postage	73,047.00	86,839.00
Telephones-Office	5,19,565.00	6,99,814.00
Telephones-Residential	38,946.00	46,307.00
l) Printing and Stationary	3,51,293.00	3,02,490.00
m) Travelling and Conveyance Expenses		
Foreign Travel Expenses	0.00	0.00
TA/DA - Staff	8,16,544.00	8,21,415.00
TA/DA - Council Members	33,091.00	64,983.00
TA/DA - Visitors	3,78,946.00	2,15,251.00
Ticket Cancellation Charges	73,412.00	37,328.00
n) Expenses on Seminar / Workshops		
Board of Studies Meeting	2,112.00	0.00
Colloquium	45,000.00	27,000.00
Council Meeting Expenses	1,06,028.00	86,256.00
Foundation Day Programme	5,120.00	0.00
HRI JOY Programme	22,000.00	0.00
JEST Examination (NBHM-Maths)	42,555.00	0.00
Rajbhasha Programme	66,956.00	93,295.00
SPIC-MACAY Chapter	55,874.00	30,655.00
Summer Program in Mathematics (SPIM)	3,57,683.00	2,32,501.00
Talent Search Examination	73,900.00	51,487.00



SCHEDULE 21 - OTHER ADMINISTRATIVE EXPENSES ETC. (Contd...)	Current Year	Previous Year
o) Subscription Expenses		
Current Journals Received (During the year)	2,26,64,312.69	2,00,87,342.17
Online Journals - Elsevier	1,52,48,094.00	0.00
Purchase of Books	1,41,945.00	76,203.00
Publication of Report	1,37,639.00	1,00,399.00
p) Expenses on Fees	0.00	0.00
q) Auditors Remuneration	27,150.00	23,200.00
r) Hospitality Expenses		
Canteen	14,04,727.50	13,01,835.50
Guest House	36,59,527.50	28,45,548.50
s) Professional Charges		
Consultancy Expenses (Taxation & Others)	2,22,544.00	33,002.00
Consultancy & Legal Expenses	94,680.00	64,630.00
t) Provision for Bad and Doubtful Debts / Advances	0.00	0.00
Arbitration Award (M/s Anandeshwar C&E P Ltd.)	0.00	60,80,000.00
u) Irrecoverable Balances Written-off	0.00	0.00
v) Packing Charges		
Binding Charges	49,060.00	69,300.00
w) Freight and Forwarding Expenses	0.00	0.00
x) Distribution Expenses	0.00	0.00
y) Advertisement and Publicity	13,25,303.00	6,94,195.00
z) Others (Specify)		
Bank Comm.	53,036.00	82,153.54
Cable TV Expenses	1,87,740.00	1,87,740.00
Misc. Expenses	46,501.28	41,561.00
Office Expenses	2,52,772.00	2,28,658.00
Loss on Sale of Assets	1,57,995.00	2,35,513.00
Sports & Other Activities	1,25,353.00	1,09,198.00
Expenses Earlier Years	85,508.00	0.00
TDS on Fixed Deposit (HRI)	7,56,623.00	3,80,608.00
TOTAL	13,69,99,192.97	11,30,78,676.71



HARISH CHANDRA RESEARCH INSTITUTE, ALLAHABAD
SCHEDULE FORMING PART OF INCOME AND EXPENDITURE FOR THE PERIOD 01-04-17 TO 31-03-18

(Amount - Rs.)

SCHEDULE 22 - EXPENDITURE ON GRANTS, SUBSIDIES ETC.	Current Year	Previous Year
a) Grants given to Institutions / Organisations	0.00	0.00
b) Subsidies given to Institutions / Organisations	0.00	0.00
TOTAL	0.00	0.00
Note - Name of the Entities, their Activities along with the amount of Grants / Subsidies are to be disclosed.		

SCHEDULE 23 - INTEREST	Current Year	Previous Year
a) On Fixed Loans	0.00	0.00
b) On Other Loans (including Bank Charges)	0.00	0.00
c) Others (specify)	0.00	0.00
TOTAL	0.00	0.00



HARISH CHANDRA RESEARCH INSTITUTE, ALLAHABAD
SCHEDULE FORMING PART OF THE ACCOUNTS FOR THE PERIOD ENDED 31-03-18

SCHEDULE 24 - SIGNIFICANT ACCOUNTING POLICIES

1 ACCOUNTING CONVENTION

1.1 The financial statements are prepared on the basis of historical cost convention, unless otherwise stated and on the accrual method of accounting.

1.2 Figures of the previous year and current year have been regrouped wherever necessary to confirm classification.

2 INVESTMENTS

2.1 Investments are valued at cost plus interest accrued thereon.

2.2 Cost includes acquisition expenses like brokerage, transfer stamps.

3 FIXED ASSETS

3.1 Fixed Assets are stated at cost of acquisition inclusive of inward freight, duties and taxes and incidental and direct expenses related to acquisition.

3.2 Assets purchased from Plan & Non-Plan during the year have been capitalized under the appropriate heads of accounts of Fixed Assets.

3.3 Realization made from Sale / Buy-back of Assets is taken as Non-Recurring Income in the year of receipt and Profit / Loss accounted for.

3.4 Realization made from Sale of Scrap is taken as Non-Recurring Income in the year of receipt.

4 DEPRECIATION

4.1 Depreciation is provided on written down value method as per rates specified in the Income-tax Act, 1961.

4.2 In respect of additions to/deductions from fixed assets during the year, depreciation is considered on full year basis.

4.3 No Depreciation is charged on assets, which is sold during the year.

5 EXPENDITURE

5.1 Consumable, stores and stationary are charged to the Income and Expenditure Account in the year of its purchase.

5.2 Non-Plan Non-Salary expense on Email, VSAT facility, Internet / Broadband charges, Annual Maintenance charges of fixed assets, etc. are charged to the Income & Expenditure account in the year of its payment. Rent receipts are taken into Income & Expenditure account on cash basis.

5.3 Non-Plan Salary expense on PRIS is charged to the Income & Expenditure account on due basis.

5.4 Deferred revenue expenditure (Composite work of Power Line) is written off over a period of 10 years from the year it is incurred.

6 INCOME / RECEIPTS

Interest income on UPPCL deposit and bank accounts are recognized on receipt basis.

7 GOVERNMENT GRANTS/SUBSIDIES

7.1 Government grants/subsidy are accounted on realization basis.

7.2 The unspent amount of grants received in respect of the projects/schemes is shown under Current Liabilities in the Balance Sheet under the head "Unutilized DAE Grants Recurring (Non-Plan)"

7.3 Excess of payments made over the grants received in respect Projects/schemes are shown under Current Assets in the Balance Sheet under the head "Payments Against Ongoing Sponsored Projects/Schemes"

8 RETIREMENT BENEFITS

8.1 Liability towards gratuity payable on death/retirement of employees is accrued based on actuarial valuation.

8.2 Provision for accumulated leave encashment benefit to the employees is accrued and computed on the assumption that employees are entitled to receive benefit as at each year end.

9 TAXATION

9.1 TDS deductible u/s 194C on Library Journals Subscriptions payments to Indian vendors will be realized on actual values of supplies when effected.

9.2 TDS deductible u/s 194J on Library Journals e-Subscriptions payments to Foreign vendors will be realized on actual values of supplies when effected.

9.3 Since there is no taxable income as per the provisions of Income Tax Act 1961, provision for Income Tax has not been made.

For HARISH-CHANDRA RESEARCH INSTITUTE, ALLAHABAD



[Signature]
(Raj Gulati)
Accounts Officer

[Signature]
(Ravindra Singh)
Registrar

[Signature]
(Pinaki Majumdar)
Director

Date: 10-08-18
Place: Allahabad



For M/s Amit Om & Co.
Chartered Accountants

[Signature]
Partner

26 SEP 2018

AUDITORS REPORT – FY 2017-18

S.No.	Notes on Accounts	Compliance
1.	An amount of Rs.4,78,50,030/- has been shown as Capital WIP, the construction of which has stopped through Hon'ble Allahabad High Court order.	In regard to a PIL No.4003 filed in relation to Ganga Pollution, the Hon'ble High Court passed an order that no construction shall be carried out within the 500 meters of Highest Flood Level (HFL) of river Ganges in the year 1978, as a result, the construction activity of the Institute was stopped since February 2013. The matter is still subjudice, the entire amount spent on construction has been shown as Capital Work in Progress.
2.	The TDS deducted on Interest earned on FDRs and Short Term Deposits are treated as expense in the year of its deduction instead of treating it as an Asset. The policy of treating TDS as an expense is not as per the prescribed norms.	As per Financial Statement Format provided for Non-Profit Organisation by Deptt. of Atomic Energy, we have been showing ' Gross Interest ' in Schedule 17-Interest Earned & also mentioning TDS deducted at sources as an expense which also mentioned in our Footer Note. As per Auditor's view, TDS deducted is an asset item, but we are treating it under the Asset/Receipt head only after receiving the Assessment Order from Income Tax Authorities. That is why, TDS deducted at source has been mentioned under the Expense Head. We have been following the same procedure in earlier years also. There is no deviation in our policy.
3.	There is inconsistency in recording AMC charges in books, with the accounting policy followed by the Institution, as the policy is to record it on payment basis, whereas it has been recorded on accrual basis.	Some of the AMC orders have a different starting and finish date during the intervening period of a financial year. That is why the expenses are booked on approval basis on end of each financial year. We are trying to streamline the procedure of having a fixed starting date of 01 st April of all AMCs so that they are completed within the same financial year.
4.	Compliance with the provisions of TDS is not made, as TDS should be deducted when the amount is paid or credited to the party whichever is earlier, as per Income Tax Act. On the contrary, the policy followed is to deduct TDS on actual payment basis.	Compliance of TDS is as per our stated accounting policy at S.No.9, which clearly states that TDS deduction U/s 194C on Library Journal Subscription pertaining Indian Vendors and also U/s 194J on Library Journal Subscription pertaining Foreign Vendors shall be on payment basis when actual supplies are received and invoiced. We have been following the same policy in previous years also.
5.	Amount recoverable against completed projects shown as claims recoverable. Institute should take necessary steps to recover or write off the following amounts:-	Regarding recovery of amounts, the Institute has referred this matter to DAE for permission to write-off these amounts as per the directives of the Governing Council Meeting dated 13/04/16. The concurrence of DAE is still awaited.

	<p>A. NBHM Grant- K. Gangopadhyay Since 2007 Rs.47,533.00</p> <p>B. NBHM Grant- Joseph Samuel Since 2007 Rs.17,030.00</p> <p>C. NBHM Fellowships Since 2009 Rs.1,85,867.00</p> <p>D. HNB Garhwal University Since 2010 Rs.40,000.00</p>	
6.	Balance of EMD, Imprest Account, Security Deposits, Sundry Creditor, Loan & Advances and Claims Recoverable etc. are subject to confirmation, reconciliation and consequential adjustments thereof. Letters for third party confirmation has been sent by the Institution however no reply has been received till the date of audit.	This is a routine practice followed by the Institute initiated after the finalization of Balance Sheet seeking confirmation from parties on their EMDs, Imprest Account, Security Deposits, Sundry Creditor, Loan & Advances and Claims Recoverable etc. There has been no dispute to any outstanding claim so far.
7.	Physical verification of Fixed Assets is being carried out by the Institute. The quantity and value reconciliation with fixed assets register for all the items is in progress therefore, we are unable to comment that financial records are in agreement with assets as recorded in fixed assets register.	It is a continuous process and is carried out after finalisation of Annual Accounts. Reconciliation for the year 2017-18 is being carried out. So far, no major discrepancies have been noticed.
8.	Previous Year's figures have been regrouped or rearranged wherever necessary.	This is a standard accounting procedure being followed every year.

Amit Roy
(Amit Roy)
IA&AO

Raaj Gulati
(Raaj Gulati)
Accounts Officer

Ravindra Singh
(Ravindra Singh)
Registrar

Pinaki Majumdar
(Pinaki Majumdar)
Director