

# Harish-Chandra Research Institute

Chhatnag Road, Jhansi, Allahabad - 211 019



## ANNUAL REPORT

(2014-15)

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## **About the Institute**

### **Early Years**

The Harish-Chandra Research Institute is one of the premier research institutes in the country. It is an autonomous institute fully funded by the Department of Atomic Energy, Government of India. Till October 10, 2000 the Institute was known as Mehta Research Institute of Mathematics and Mathematical Physics (MRI) after which it was renamed as Harish-Chandra Research Institute (HRI) after the internationally acclaimed mathematician, late Prof Harish-Chandra.

The Institute started with efforts of Dr. B. N. Prasad, a mathematician at the University of Allahabad, with initial support from the B. S. Mehta Trust, Kolkata. Dr. Prasad was succeeded in January 1966 by Dr. S. R. Sinha, also of Allahabad University. He was followed by Prof. P. L. Bhatnagar as 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 Department of Atomic Energy (DAE) entered into decisive stage and a review committee was constituted by the DAE to examine the Institute's future. In 1985 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 expenditure. In January 1990, about 66 acres of land was acquired in Jhansi, Allahabad and the Institute came up at this site.

Prof. Shrikhande was followed by Prof. H. S. Mani who took over as the Director in January 1992. With his joining and the shift to the new campus at Jhansi in 1996, the Institute's activities picked up pace. This phase of rapid growth still continues.

### **New Phase**

After a distinguished tenure of about nine years Prof. Mani retired in August 2001 and the charge was taken over by Prof. R. S. Kulkarni. After Prof. Kulkarni's tenure, Prof. Amitava Raychaudhuri was the Director from July 19, 2005 to May 15, 2011. Prof. Jayanta Kumar Bhattacharjee, the current Director, took over in April 29, 2012. The Institute continues to be devoted to fundamental research in diverse areas of mathematics and theoretical physics. Research is carried out by faculty members, visiting members, post-doctoral fellows and Ph. D. students.

Since 1992 the Institute has attracted worldwide attention, as is evident from the recognition received by many of its members. Several members of the Institute have been recognised for their scientific contribution. Prof. B. Mukhopadhyaya, Prof. Pinaki Majumdar, Prof. Rajesh Gopakumar and Prof. Ashoke Sen have been awarded the Shanti Swarup Bhatnagar prize for work done at HRI. Prof. Gopakumar has also received the Swarnajayanti Fellowship of the Department of Science & Technology and the ICTP Prize for 2006. The outstanding contribution of Prof. Ashoke Sen has been recognised by a Fellowship of the Royal Society, the award of Padmashri and Padmabhushan and the award of one of the first Fundamental Physics Prize (2012) from the Yuri Milner Foundation. He was the only recipient of the prize from all of Asia.

Prof. Rajesh Gopakumar was awarded the prestigious J. C. Bose fellowship of the Department of Science and Technology and the TWAS physics prize in October 2013 and also he won the G D Birla prize in physical sciences for the year 2013 earlier this year. Prof. Aditi Sen De received the Buti foundation award of the Indian Physics Association for the year 2013. Prof. Raj Gandhi was awarded the “Fermilab Intensity Fellowship” which would allow him to work at Fermilab for a considerable period.

### **Research in Mathematics**

The mathematics group at HRI carries out research in several areas. In algebra, work is done on algebraic groups and related structures, the theory of groups and group rings, representation theory, and infinite-dimensional Lie algebras. Work in analysis is in the field of harmonic analysis of Lie groups.

Activity in geometry includes discontinuous groups and Riemann surfaces, algebraic topology, variational problems on manifolds, Chow groups of rational surfaces, and moduli of vector bundles. The number theory group works on algebraic, analytic and combinatorial number theory, automorphic forms and cryptography.

### **Research in Physics**

Research in Physics at HRI is carried out in the fields on astrophysics, condensed matter physics, quantum information and computing, high energy phenomenology and string theory. In astrophysics, work is done on the

cosmic microwave background, large scale structure formation and galaxy evolution. Main areas of activity in condensed matter physics are strongly correlated electron systems, mesoscopic systems, quantum Hall effect and superconductivity. In string theory, perturbative and non-perturbative aspects of string theory and quantum field theory are being actively investigated. Research in neutrino physics, strong interactions, lattice gauge theory, supersymmetry and various aspects of physics beyond the standard model is done in high-energy phenomenology. The Institute is a member of the India-based Neutrino Observatory (INO) collaboration.

The Institute has a residential campus in Jhansi, Allahabad with a library, state of the art computational facility and fast Internet link to the outside world. There is an active graduate program and a large traffic of visiting scientists and students.

## Director's Report

The most newsworthy event for HRI last year was the award of the ICTP Dirac medal to Prof. Ashoke Sen. This is a singular achievement because no Indian scientist working in India has ever won this award. Prof. Jogesh Pati is the only other Indian to be given this medal but all his work has been done from the University of Maryland in U.S.A. Another notable achievement was that of Prof. Sukumar Das Adhikari who received the M.S. Singhal Memorial award of Indian Mathematical Science Congress.

As always, the year has seen a large number of conferences, workshops and schools in both physics and mathematics. There was a one month long advanced instructional school on combinatorics in April, 2014, a two weeks workshop on symplectic geometry and contact topology in December, 2014 and a conference on infinite dimensional Lie theory and its applications in mid December, 2014. In physics, there was a two weeks school on the very fashionable and fast changing world of topological quantum matter in February, 2015 and a quantum information school geared for young researchers towards the end of February, 2015.

A large number of prominent visitors came to the Institute in the course of the year. Some stayed for a longish while and delivered a course of lectures. Prof. Bettina Wilkins of University of Bostwana, South Africa, Prof. Kishore B. Marathe of City University of New York and Prof. Winfred Kohnen of Max Planck Institute for Astronomy in Germany delivered a course of three lectures each. Prof. Jaya Iyer of IMSc., Chennai and Prof. Manish Mishra of University of Heidelberg gave two lectures each. Prof. Valery Rubakov of the Russian Academy of Sciences was the speaker for the Triveni lecture for the year. A Harish-Chandra Memorial lecture for outreach purposes was established and the first lecture delivered by Prof. Charles Bennett of IBM Research Centre, Yorktown Heights. The Foundation day lecture was delivered by Prof. Shiraz Minwalla of TIFR, Mumbai.

The outreach activities of HRI flourished. The summer programme in mathematics (SPIM) was as popular as ever. A week long science programme in Hindi was conducted to help local students get a feel for scientific logic. The science talent search test in mathematics and physics was conducted as usual in November for students of 10<sup>th</sup> and 12<sup>th</sup> grade in

the Allahabad area. A programme was organised for the top performers where a popular introduction to strings was given by Prof. Rajesh Gopakumar of HRI.

### **Future Programme**

There has been a major rethinking by the faculty members about the future role of HRI. Having established itself as a premier research institution, it is felt that the excellent masters level teaching which is carried out for the Ph.D students who enter with a bachelor degree should be extended to students who want only a masters degree. Accordingly, an expansion scheme whereby the Institute becomes a full-fledged post graduate Institution running both a masters and a doctoral programme has been submitted to DAE for consideration. This envisages a doubling of the Institute faculty (from 40 to 80) in the next decade and a yearly intake of about 75-80 students. This should make HRI the leading Institution in physics and mathematics in the central part of India.

Jayanta Kumar Bhattacharjee  
Director

## Important Achievements of the Institute

The significant achievements of HRI in the last one year can be clarified under the following heads:-

**Mathematics at HRI:** Important advances in number theory, group representation and differential equations were made in the course of the year.

**Strings Etc.:** Internationally recognised contributions out of HRI last year with quite a few of them exploring ways of using gauge gravity duality in wider setting than had been envisaged before.

**Quantum Information:** One of the important pieces of information required for development of ultra high speed quantum computers and communication channels is the min time of evolution from one quantum state to another. A new HRI result given a tight bound on this evolution time and should be enormous importance in days to come.

**Condensed Matter Physics:** HRI has been at the forefront of high performance computing in India over the last few years. In the last year, spectacular success has been achieved in one of the most remarkable aspects of condensed matter physics in the last decade – the BCS-BEC crossover in a gas of cold fermions. While a huge amount of work has been done and techniques developed world wide over the last several years, most of them do not work in the presence of spatial inhomogeneities. The real space auxiliary field approach developed in HRI has been found to be-tailor – made for handling such complications. This is a very significant break through.

**High Energy Physics:** HRI is now a formal collaborator of the Long Baseline Neutrino Experiment (LBNE). This is one of the most ambitious experimental project in fundamental physics for the next decade. Neutrino interactions with matter are as yet ill-understood. It is expected that unraveling this will answer the very basic question of why our universe is made up of matter with no antimatter around. The project is being undertaken by Femilab, USA and it is an important achievement for HRI to be a part of the supporting theory group for this high priority project.



## **Governing Council**

1. Prof. M. S. Raghunathan  
Chairman  
503, Atlantis  
Raheja Acropolis – 1,  
Deonar Pada Road, Deonar,  
**Mumbai – 400 088**
2. Prof. R. Balasubramanian  
Institute of Mathematical Sciences  
CIT Campus, Taramani,  
**Chennai – 600 113**
3. Mr. R.A. Rajeev  
Joint Secretary (Finance)  
Govt. of India  
Deptt. of Atomic Energy  
Anushakti Bhavan  
Chhatrapati Shivaji Maharaj Marg  
**Mumbai – 400 001**
4. Mr. Pranay Verma  
Joint Secretary (R& D)  
Govt. of India  
Deptt. of Atomic Energy  
Anushakti Bhavan,  
Chhatrapati Shivaji Maharaj Marg,  
**Mumbai – 400 001**
5. Dr. J. N. De  
BH-135, Sector II  
Salt Lake,  
**Kolkata – 700 091**
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  
University of Mumbai  
Kalina Campus  
**Mumbai – 400 098**

7. Prof. H. S. Mani  
2, Fourth Cross Street,  
Durga Colony, Sembakkam  
**Chennai - 600 073**
8. Director, Higher Education  
(Ex-officio)  
Higher Education Department, U.P.  
Near G.P.O., Civil Lines,  
**Allahabad – 211 001**
9. Mr. S. L. Mehta  
4, Clive Row  
**Kolkata – 700 001**
10. Mr. Avnish Mehta  
4, Penn Road  
**Kolkata – 700 027**
11. Mr. Rajnish Mehta  
4, Penn Road,  
**Kolkata – 700 027**
12. Prof. J.K. Bhattacharjee  
(Ex-Officio)  
Director  
Harish-Chandra Research Institute  
Chhatnag Road, Jhansi,  
**Allahabad – 211 019**

# Summary of Research Activities in Mathematics

## Number Theory

New results have been obtained in the area of zero-sum problems with weights. Work is in progress on some questions of monochromatic solutions of certain equations. A study on the cardinalities of the sets of quotients and products of a large set of integers  $A$  in various contexts. First, these quantities are studied as random variables on the set of sets of prescribed density of integers in an interval and then for large subsets of shifted primes and sums of two squares of natural numbers. A version of the well-known Perron's formula, suitable for study of short interval questions, is obtained. This formula is applied together with the Generalised Riemann Hypothesis, to a short interval problem on primitive roots. We improve as well as obtain a generalisation of a result of Kevin Henriot. We proved that for any translation invariant system  $V$  of linear equations of complexity one, a subset of primes or Chen primes with relative density not too small, contains a non trivial solution of  $V$ .

An explicit description of a natural quotient of the absolute Galois group of a local field which is neither tamely ramified nor commutative. An upper bounds for a three variable non-linear Diophantine equation positive solutions were obtained. Non-vanishing of Fourier coefficients of well-known function were obtained partially. A series study on the well-known conjecture, namely, Four Exponential Conjecture has been taken up.

Further study on the convolution sums of the divisor functions and their applications has been carried out. The Kohnen plus space has been extended for certain even levels and the theory of newforms has been studied. Generalization of a conjecture of D. Zagier regarding the asymptotic behavior of the inverse Mellin transform of the symmetric square L-function associated to Ramanujan tau function for general cusp forms have been completed. Work is in progress to get better estimates as these estimates give information of the associated 'heat kernel'. Gauss's quadratic reciprocity law and Riemann's non-differentiable function has attracted attention of many researchers. We have given a combined proof of both these facts by using an integrated form of the theta function. Raising complex powers of various Dirichlet series and studying the coefficients was an area explored by A.

Selberg for application to various prime number theorems. We study the complex power of the Dirichlet series associated to the Hecke eigen forms. This research has application in studying integers without big and small prime factors. Work is also in progress on a method of extracting the essential main term from the data on generating functions.

## **Algebra and Geometry**

Working on generalisations of the Atiyah-Weil theorem on holomorphic connections, and of the Krull-Remak-Schmidt theorem of Atiyah.

Work was done on minimal surfaces interpolating between real analytic curves and on surfaces which are in some sense algebraic. Also, work was done on geometric quantization of finite Toda system and on Ramanujan's identities, minimal surfaces and solitons. A project of studying generalized Seiberg-Witten equations reduced to dimension two and also a project of exploring ways of viewing many equations coming from physics as integrable systems, for instance the vortex equations, Feuter equations etc. has been seriously taken up.

Classified all finite groups whose non-linear irreducible characters of the same degree are Galois conjugate.

## **Analysis**

The research in Harmonic analysis during the last one year involves the study of Schrodinger equation on Modulation spaces, Hardy Sobolev inequality for the twisted Laplacian, Maximal operators along hyper surfaces and Fourier integral operators. One of the main results on modulation spaces, shows that the only nonlinearity that can act (by composition) on a large family of Modulation spaces of interest, is real analytic. This in particular answers an open question negatively.

Optimal Hardy-Sobolev inequality has been proved for the twisted laplacian. Since the twisted laplacian corresponds to the magnetic Laplacian for a constant magnetic field, the Hardy-Sobolev inequality that we proved, generalizes the classical Hardy Sobolev inequality to the magnetic Laplacian.

The work on Maximal operators along hyper surfaces concerns mapping properties in Lebesgue spaces. For a large class of hyper surfaces, we could prove boundedness. The work on Fourier integral operators, concerns the local smoothing property. We consider the Fourier integral operators with phase function corresponding to the wave equation. The study involves delicate oscillatory integral techniques and is still in progress.

## **Summary of Research Activities in Physics**

### **Condensed Matter Theory**

The condensed matter group here has been focussing on studies of topological phases in quantum matter, new methods to study correlated quantum systems and cluster physics.

Topological phases are phases of matter which may have the same symmetry, but are nevertheless completely different. These phases need to be described by a more general description which is essentially quantum in nature and depends on the topology or global properties of the many-body ground state wave-function of the system. Such phases have grown in importance because they are expected to play an important role in technological applications in spintronics and quantum computing due to their insensitivity to disorder and scattering. Several aspects of these phases, including new layered materials with relativistic electronic band structures such as silicene and germanene are being studied. Also, new materials called Weyl semi-metals are being studied and hetero-structures or junctions of all these materials with other material such as superconductors are being studied. In topological phases of matter, it has also been shown that the topological aspect and the earlier Landau paradigm are different manifestations of the density matrix

A new method to study correlated states of matter, at finite temperature and strong coupling, relevant to many real life correlated systems is being developed. This includes superconductors, and magnetic materials with unusual low temperature properties. The method has been tested on simple models and is now being refined for geometries that may have device applications. Specific problems include studying the competition between antiferromagnetic insulating phase stabilised by local Coulomb interaction among electrons and charge density wave or bipolaronic insulating phase stabilised by local electron-phonon interaction in the Holstein-Hubbard model and onset and evolution of superconductivity as the fraction of attractive centres are varied in a metal or an insulator.

Free and surface supported clusters are being studied. Some examples include valence transition of the vanadium atom in positively charged clusters composed of one vanadium and a number of silver atoms and silver

clusters deposited near the step edge of a highly oriented pyrolytic graphite substrate. We also identified the right substrates for self-assembly of magnetic superatoms. Finally, graphene and hexagonal boron nitride turned out to be ideal for the self-assembly of magnetic superatoms.

## **High Energy Theory**

A number of important contributions have come from this group in the context of new physics search at the Large Hadron Collider (LHC). The possibilities contained in the data of the newly discovered Higgs boson have been pursued with special emphasis, both in model-independent approaches and in the context of specific models such as supersymmetry, extra dimensions or coloured resonances. Significant contributions have also been made in computer simulation techniques applicable to the LHC environment. Connecting such new physics search with the dark matter content of the universe is another area in which contributions have been made.

A good deal of work has also been produced in studies on neutrinos, the illusive weakly interacting particles that contain several unsolved puzzles. In particular, this includes studies in ultra-high energy neutrinos, long baseline physics, and precision measurements in a neutrino detector. Possible signatures of Lorentz and CPT violation in the neutrino sector have also been investigated using neutrino detection experiments to look for dark matter signals is another front where contributions have been made. Progress has also been made on the extraction of neutrino oscillation parameters from various experiments. Detailed simulation and prediction of results for the India-based neutrino Observatory, an experiment to come up in India in the near future, have also been carried out.

## **Astrophysics**

The Astrophysics group consists of one permanent faculty member, two post doctoral fellows, two Ph.D. students and one junior short term project assistant. The group hosts several under graduate and post graduate students with Physics or Engineering background to train them for short periods - as a part of the manpower training in the field of astronomy. Most of such students are currently pursuing their Ph.D. or post doctoral research in eminent universities abroad. Faculty members of several other academic institutions from India and abroad frequently visit the group for short/long

duration to collaborate with the members of the group and to deliver lecture courses on diverse contemporary topics in astrophysics. Members of the group attend workshops and conferences in India and abroad to present their works.

Members of the group work in the detection of dark matter, rotation curve of the Galaxy, various aspects of the general theory of relativity, analogue gravity phenomena, dynamical systems and on black hole astrophysics. Their academic works lead to several publications in esteemed international journals of high impact factors. Such works have regularly been cited by scientists from various premier academic institutions.

During last one year work has been done on the linear stability properties of the stationary transonic large scale astrophysical flows in the Schwarzschild, Kerr and Rindler space-time. Multi-transonic behaviour of accretion processes has been studied for post Newtonian pseudo-Kerr potential. Analogue surface gravity has been estimated for various geometrical configuration of astrophysical flow onto gravitating compact objects and the embedded pseudo-Riemannian acoustic metric has been studied. It has been demonstrated that the black hole spin can influence the emergent accretion spectra and a novel prescription for the observational signature of the black hole spin (the Kerr parameter) has been provided - this work has recently been highlighted in Nature.

### **Quantum Information and Computing**

Quantum information and computation is an area of research at the crossroads of science, mathematics, and engineering, and can potentially provide qualitative changes to human abilities to communicate and compute. The broad areas of research by the members of the group include quantum uncertainty relations, quantifying quantum coherence, classical and quantum disordered many-body systems, frustrated systems, monogamy of quantum correlations, frozen quantum correlations, and quantum information transmission networks. In particular, we have derived two uncertainty relations which go beyond and are stronger than the celebrated quantum Heisenberg uncertainty relation. We have also investigated the phenomenon wherein quantum correlations freeze and have provided necessary and sufficient conditions for its occurrence.

The quantum information and computation group at HRI consists of three faculty members, one INSPIRE faculty, twelve PhD students, five



postdoctoral fellows, and two adjunct professors. The group has research contacts with several other groups, both theoretical and experimental, in different institutes in India and abroad (mainly in Europe, Singapore, Canada, and the US). The group encourages students, and junior and senior scientists as visitors for short 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 to disperse the research performed by the group, as well as to forge new collaborations. The group has produced 17 research papers in different journals including Physical Review Letters, Physical Review, New Journal of Physics, etc, during the past academic year. A further 33 are submitted in different journals. One article in Physical Review Letters was highlighted in Nature India.

### **String Theory**

String theory is the leading candidate for a quantum theory of gravity. In the past year, the string group in HRI has carried out research in various aspects of string theory.

Basic formalism required for the construction of off-shell amplitudes has been developed. String perturbation theory around dynamically shifted vacua has been developed. State counting in blackholes and associated studies of Coulomb branch moduli spaces have been performed. The problem of defining boundary counter-terms for AdS gravity using extrinsic curvature has been studied. This formalism is quite powerful in giving compact expression for counter-terms in arbitrary dimensions. Studies to develop a formalism for the Ramond sector of superstring field theory have been carried out. Studies aiming to understand the large unbroken symmetries of string theory in special backgrounds in terms of better understood gauge symmetries, such as in the Vasiliev theory of higher spin gauge fields have been performed. There appears to be a novel structure of a higher spin square underlying these stringy symmetries. Studies analyzing the low momentum expansion of the four graviton amplitude at three loops in maximal supergravity have been performed. The complete expression for the leading term in this expansion has been obtained in a specific case. Partial contributions to some other interactions have been obtained by regularizing ultra-violet divergences. Inflationary models of early universe based on string/supergravity have been analysed in light of inhomogeneities in the cosmic microwave background.

## Library

The Institute's library is one of the best-equipped libraries in the region. Being the library of a research Institute, it provides the required support to the academic and research activities. It remains open on all working days from 8:00 a.m. to 2:00 a.m. including Saturdays. It also remains open during the Sundays and the Gazetted holidays from 10:00 a.m. to 6:00 p.m. It has added 366 (Three hundred sixty six) books including 43 gifted books to its fold. It increased the total number of books to 21520 (Twenty one thousand five hundred and twenty) which includes 1120 gifted books. It has also added 503 bound volumes of the journals during the period from 1<sup>st</sup> April, 2014 to 31<sup>st</sup> March, 2015. It has increased its bound volume collection to 35923. The Institute's library has a total collection of 57443 (Fifty seven thousand and four hundred forty three) books and bound volumes. The library had subscribed to 178 journals during this period. This includes 96 online journals.

During the current year we have procured/added the Archives of Springer E-Books Archive in 'Lecture Notes In Mathematics' too in our collection.

The physical stock verification was recently completed with the help of PDT (Portable Data Terminal) for collection of Bar Codes. The whole collection is 'Bar Coded' and equipped with 'Tattle Tapes' for security. It reflected no loss of any title in the category of books or journals.

Our library is facing a lot of space problem. As we know that "*the library is a growing organism*" the need for space is increasing accordingly. We had already planned for 2.5 folds increase to our present space. The construction of the same is also in the full swing which would have allowed the library space increase horizontally but due to legal issues it has been stopped. Recently, we are in process of enriching our Library with RFID solutions for better library services. We enriched our Digital Library Depository of the HRI, which includes submitted articles, thesis, lectures etc. The library web page has also been updated which provides detailed information about the library such as subscribed databases, archives, library rules, library staff, list of online journals, online link to the Video lectures and other useful links. The emphasis was to procure maximum number of journals on line. We have been providing on-line access of periodicals to our users for 96 (Ninety six) titles.

We have provided the Web Enabled library catalogue to our users. The library is aiming to be termed as a 'Completely Automated Library System'. The online catalogue has increased the opportunities of the use of our library resources by the neighboring organisations such as INSDOC, TIFR etc. through the Document Delivery Services (DDS). Normally we provide the DDS on request through post, at a very nominal cost, but requests have also been honoured through e-mails. We had encouraged the use of the library by providing library consultation facilities to research scholars from neighboring institutes. We had strengthened our library security with the implementation of Electro-magnetic Tattle Tapes to reduce losses.

## **Computer Centre**

1. Scientific Software; Mathematica and Matlab were upgraded with the latest versions.
2. Desktop Computers of the Faculty, Students, Post-Doctoral Fellows and Visiting Fellows were upgraded with the latest version of Linux Operating Systems.
3. Latest version of several application software and packages were loaded on systems of users/computer centre/conference room that enabled the researchers to compute the numerical and analytical calculations faster and precise manner.
4. All the important packages in the systems 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.
5. Adequate computing support was provided to participants of the conferences.
6. 30 new desktop computers were purchased for Ph.D. students.
7. Up-gradation of the entire campus-wide network with Gigabit fibre backbone to increase accessibility, speed, and the reliability was completed.
8. Replacement of old SMF batteries with the new SMF batteries for the centralised online UPS systems were completed.

### **Current activities and plans:**

1. It is planned to further enhance the performance and security level of Mail, Webmail, NFS, LDAP and firewall servers.
2. It is planned to purchase high end rack servers with large storage to cater the present need of the academic and administrative staff.
3. It is planned to purchase 11 Desktops for the Ph.D. students.
4. It is planned to purchase a colour printer for the computer centre users.

## **Construction Activity**

Activities related to building construction work from February 2013 was affected due to order of the Hon'ble High Court, Allahabad in regard to PIL No.4003 of 2006 related to Ganga Pollution. The Hon'ble High Court has 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. According to that, HRI falls within this prohibited range. HRI has filed an application in Court for relief against this order as HRI has its own Sewage Treatment Plant (STP) with almost zero discharge and cannot cause pollution to river Ganges. The decision of Court in our case is still awaited therefore since last two years major construction activity is almost stopped.

Some miscellaneous works related to maintenance/modifications were carried out during this financial year:-

- Replacement of one no. 8 passenger Hydraulic lift with 6 or 8 passenger machine room less lift in existing shaft area of Institute building.
- Up-gradation of electrical power cables connectivity in some of old housing areas and enhancement of security light at boundary wall.
- Development of area near new married apartment (PDF housing).
- Separate reading Zone for Library users.
- Supply & installation of one no. projector for Auditorium.

## **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 done based on 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.

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 and Security Report**

There is nothing specific to report from vigilance/security point of view for the period up to 31<sup>st</sup> March, 2015. The Institute follows the instructions received from DAE time to time pertaining vigilance/security matters.

Further, we have ensured the submission of Annual Property Returns (APRs) of all eligible employees up to 31/03/2015 they have been scrutinized and have also been put up on the Institute website as per the mandatory requirement.

## Auditor's Report

1. We have audited the attached Balance Sheet of Harish-Chandra Research Institute, Allahabad as at 31<sup>st</sup> March, 2015 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-11 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 31<sup>st</sup> March, 2015.
    - 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.

For Vibhuti Agrawal & Co.

Chartered Accountants

Sd./

Place : Allahabad  
Dated: 11.08.2015

(Vibhuti Agrawal)  
Proprietor  
M.No. 073789



**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 CWIP of which construction has stopped through ADA order.
2. During the year an amount of Rs.77,74,128/- has been utilized under “Infrastructure Housing” for construction of Hostel Building which has not been completed and hence the same has not been capitalized.
3. Amount recoverable against completed projects shown as claims recoverable and Advance for Journals are outstanding since long. Institute should take necessary steps to recover or write off the following amounts:

A. NBHM Grant-K. Gangopadhyay	Since 2007	Rs.47,533.00
B. NBHM Grant-Joseph Samuel	Since 2007	Rs.17,030.00
C. DST-SFT Manoj Kumar	Since 2007	Rs.33,961.00
D. NBHM Fellowships	Since 2009	Rs.1,85,867.00
E. HNB Garhwal University	Since 2010	Rs.40,000.00
F. Ramanujan Maths Society (DST)	Since 2012	Rs.8,750.00
G. INO Conference Recover	Since 2012	Rs.7,40,924.00
4. Interest Income on Fixed Deposit of Infosys Foundation (Rs.25,00,000) is received and utilized for granting of Foreign travel support to students , as such the Interest Income is not treated as Income of the Institute though TDS is deducted and claimed.
5. During the year no interest on Security deposit with UPSEB was received.
6. Physical verification of Fixed Assets is being carried out by the Institute. The quantitative & value reconciliation are being done with fixed assets register, as such we are unable to comment whether financial records are in agreement with physically verified fixed assets.
7. Balance of EMD, Security Deposits, Sundry Creditor, Loan & Advances and Claims Recoverable etc. are subject to confirmation, reconciliation and consequential adjustments thereof.
8. Previous Year’s figures have been regrouped or rearranged wherever necessary.

Place : Allahabad  
Dated: 11.08.2015

For Vibhuti Agrawal & Co.  
Chartered Accountants

Sd/-  
(Vibhuti Agrawal)  
Proprietor  
M.No.073789

**Harish-Chandra Research Institute**  
Chhatnag Road, Jhansi, Allahabad, Uttar Pradesh 211 019  
**Balance Sheet as at March 31st, 2015**

as at 31-Mar-2014	Liabilities	Sch	as at 31-Mar-2015	as at 31-Mar-2014	Assets	Sch	as at 31-Mar-2015
<b>34945732.61</b>	<b>CORPUS / CAPITAL FUND</b>		<b>3919885.27</b>	<b>139388764.15</b>	<b>Fixed Assets</b>	<b>5</b>	<b>139274539.41</b>
16005087.76	Opening Balance		34945732.61	157401477.85	Land & Building		157401477.85
58303507.25	Add: Assets Capitalization Plan Grants		41620584.00	46149445.32	Furniture & Fixtures		48407963.32
18770304.00	Add: Assets Capitalization Non-Plan Grants		19651792.00	42981843.54	Other Assets		44073168.54
4543615.00	Add: Receipts & Additions to Fund		3721314.00	212725128.92	Library Assets		234258657.92
-2592942.00	Less: Expenses of earlier years		0.00	229688910.96	Machinery & Equipments		264804252.96
-60083839.40	Less: Transferred from Income & Expenditure A/c		-96018937.34	5663958.41	Misc. Equipments		5728878.41
				684620765.00	<b>Gross Value of Fixed Assets</b>		<b>754614389.00</b>
				-55523200.85	Less: Depreciation Reserve		-615339859.59
<b>2909276.00</b>	<b>DAE - Non Recurring Grants (XI Plan)</b>	<b>1</b>	<b>17576021.00</b>	<b>47850030.00</b>	<b>Capital Work in Progress</b>	<b>6</b>	<b>47850030.00</b>
86266800	XI Plan Grant Receipts		362668000.00	8545811.81	Admin Building Under Construction		8545811.81
-33569724	XI Plan Grants Utilisation		-345091979.00	3701880.31	Community Centre Annex Under Construction		3701880.31
<b>23146786.94</b>	<b>DAE - Non Recurring Grants (XII Plan)</b>	<b>2</b>	<b>46390792.13</b>	8780508.98	Engineering Section Building Under Construction		8780508.98
64120000	XII Plan Grant Receipts		149120000.00	26821828.90	Hostel Building Under Construction		26821828.90
-40973213.06	XII Plan Grants Utilisation		-103729207.87	<b>5319507.00</b>	<b>Investments</b>	<b>7</b>	<b>5402546.00</b>
<b>10468459.50</b>	<b>Other Grants &amp; Receipts</b>	<b>3</b>	<b>10414294.50</b>	2500000.00	FDR with BoB		2500000.00
1515984.50	DST Projects		1398398.50	2155227.00	FDR With SBI		2155227.00
1917327.00	NBHM Projects		1976072.00	664280.00	Interest Accrued on Investments		747379.00
250277.00	Swarna Jayanti Fellowships		250277.00	<b>126943853.65</b>	<b>Current Assets</b>	<b>8</b>	<b>176317629.65</b>
1191178.00	Inspire Faculty Award-R. Prabh		836986.00	47930.25	Cash-in-hand		35260.00
742089.00	J.C. Bose Fellowship to Dr. Ashoke Sen		252465.00	90299448.07	Bank Accounts		146745539.32
440936.00	Ramanujan Fellowship-Dr. Anshuman Maharana		627445.00	4860.12	Postage in Hand/Frinking (B/S)		3024.12
455701.00	CSIR		497512.00	19566810.54	Advance for Journals		19879956.54
2902735.00	Intosys Foundation Grants		3019202.00	6216348.67	Deposits (Asset)		7052107.67
0.00	HRI-Endowment Fund		1016461.00	279906.00	Advances for Travel/ Abroad Travel		125414.00
1058232.00	Other Grants		539476.00	477686.00	Advances Recoverable Ag. Salaries		102997.00
<b>231369415.35</b>	<b>Current Liabilities</b>	<b>4</b>	<b>298628475.16</b>	10050864.00	Claims Receivable		24383331.00
2847813.40	Accounts Payable		3557235.40	<b>9526515.60</b>	<b>Misc. Expenses (ASSET)</b>		<b>7984727.00</b>
1553646.80	Payable to Staff		1275206.80	9526515.60	Deferred Revenue Expenditure (Power Line)		
3605798.00	Payable to Parties		25960399.06				
218905433.25	Current Bills Payable		22920931.00				
10765127.90	Security & Earnest Money Deposits		11879908.90				
24972.00	Provision for Audit fee payable		30259.00				
191276624.00	Provision for Retirement Benefits		233904539.00				
<b>329028670.40</b>	<b>Total</b>		<b>378829472.06</b>	<b>329028670.40</b>	<b>Total</b>		<b>378829472.06</b>

For HARISH-CHANDRA RESEARCH INSTITUTE, ALLAHABAD

Sd/-  
**(Raj Gulati)**  
Accounts Officer

Sd/-  
**(Jayanta Kumar Bhattacharjee)**  
Director

As per our separate report of even date attached  
For Vibhuti Agrawal & Co.  
Chartered Accountant

Sd/-  
**Vibhuti Agrawal**  
Proprietor

# Harish-Chandra Research Institute

Chhatnag Road, Jhansi, Allahabad, Uttar Pradesh 211 019

## Income & Expenditure Statement for the year ended on March 31st, 2015

As at 31-Mar-2014	Expenditure	Sch	as at 31-Mar-2015	As at 31-Mar-2014	Income	Sch	as at 31-Mar-2015
	<b>Non-Plan Salary Expenses</b>	<b>9</b>	<b>129444440.00</b>		<b>Grants-in-Aid General</b>		
74146102	Pay & Allowances		80520885.00	114100000.00	D.A.E-Recurring (Non-Plan) Salaries		130000000.00
3500247	Honorarium & Scholarships		1888325.00	751000000.00	D.A.E-Recurring (Non-Plan) Non-Salary		100000000.00
23709923	Fellowships		29786786.00				
94512	CPF (Employer's Contribution)		15800.00				
1969406	NPS		2280584.00	400740.00	<b>Non-Recurring Income</b>		<b>373101.00</b>
2892306	Pension		3486895.00	120591.00	Misc. Receipts (Penalties/LD Clause)		188731.00
2060560	Retirement Benefits (Gratuity Etc.)		7458359.00	0.00	Misc. Receipts (Pension/Gratuity etc.)		94662.00
3882619	Medical-Reimbursement		4028806.00	425822.00	Water Charges & Others		54052.00
					Profit on Sale of Assets		35666.00
	<b>Non-Plan Non-Salary Expenses</b>	<b>10</b>	<b>102093381.00</b>		<b>Institute &amp; Other Sources Receipts</b>		<b>4457199.00</b>
139450	Overtime Allowances		147800.00	11162120.00	<b>Recurring Receipts</b>		<b>3520943.00</b>
1301910	Domestic Travel Expenses		1488805.00	2490212.00	License Fee & Elect. From Rented Buildings		814142.00
499772	Foreign Travel Expenses		774275.00		Receipts From Guest House & Pantry		2706801.00
4514332	Office Expenses		5548225.50	578773.00	<b>Interest Earned</b>		<b>419754.00</b>
18406974	Library & Publications		18588077.00	2763.00	Interest on Bank Deposits		473535.00
438864	Supplies & Materials consumed		580205.00		Interest on Loans to Employees/staff		6219.00
50210035	Minor Works & Maintenance		57578647.00		<b>Recurring Income</b>		<b>339705.00</b>
6451805	Machinery & Equipment		7815925.00	20500.00	Firms Registration Fee		6000.00
510007	Conferences/Seminars		850473.00	12318.00	Misc. Receipts		15810.00
4768270	Motor Vehicles		4515428.00	60.00	R.T.I. Receipt		180.00
3878740	Other Expenses		4221719.50	36250.00	Sale of Tenders		42780.00
22472.00	Audit Fees		22800.00	0.00	Sale of Scrap		274935.00
					<b>Recoveries From Salaries Etc.</b>		<b>176797.00</b>
					Recovery of Accommodation Charges		25306.00
					Recovery of Cable T.V. Charges		49050.00
					Recovery of Personal Transport		89903.00
					Recovery of Telephone Charges		12538.00
<b>20938306</b>	<b>Sub-Total</b>		<b>231537821.00</b>	<b>204640044.00</b>	<b>Sub-Total</b>		<b>234830300.00</b>
1587752.6	Deferred Revenue Expenses-33kva Power		1587752.60	1301738.00	Excess of Income over Expenditure		3292479.00
51804641.8	Depreciation on Assets		60993037.74	<b>60083639.40</b>	Transferred to Corpus / Capital Fund		96018937.34
7993183	Provisions for Retirement Benefits		36730626.00		Significant Accounting Policies & Notes on Accounts	<b>11</b>	
<b>61385577.4</b>	<b>Total</b>		<b>99311416.34</b>	<b>61385577.40</b>	<b>Total</b>		<b>99311416.34</b>

For HARISH-CHANDRA RESEARCH INSTITUTE, ALLAHABAD

Sd/-  
**(Raj Gulati)**  
Accounts Officer

Sd/-  
**(Ravindra Singh)**  
Registrar

Sd/-  
**(Jayanta Kumar Bhattacharjee)**  
Director

As per our separate report of even date attached  
For Vibhuti Agrawal & Co.  
Chartered Accountant

Sd/-  
**Vibhuti Agrawal**  
Proprietor

Date: 11-08-2015.  
Place: Allahabad

Schedule 1 forming part of Balance Sheet as at 31st March 2015

**XI Plan Grant Receipts**

	As on 31-03-14	Year 14-15	As on 31-03-15
Grant-High Performance Scientific Computing	112800000.00 Cr	0.00 Cr	112800000.00 Cr
Grant-Scientific Computing & Networking	80500000.00 Cr	0.00 Cr	80500000.00 Cr
Grant-RECAPP	35898000.00 Cr	0.00 Cr	35898000.00 Cr
Grant-Civil & Infrastructure Development	85070000.00 Cr	0.00 Cr	85070000.00 Cr
Grant-Housing	48400000.00 Cr	0.00 Cr	48400000.00 Cr
<b>Grand Total (A)</b>	<b>362668000.00 Cr</b>	<b>0.00 Cr</b>	<b>362668000.00 Cr</b>

**XI Plan Grants Utilisation**

	As on 31-03-14	Year 14-15	As on 31-03-15
High Performance Scientific Computing	112800000.00 Dr	0.00 Dr	112800000.00 Dr
Scientific Computing & Networking	80500000.00 Dr	0.00 Dr	80500000.00 Dr
Regional Centre- Accelerator Based Particle Physic	35898000.00 Dr	0.00 Dr	35898000.00 Dr
Infrastructure (Non-Housing)	66501647.10 Dr	3748127.00 Dr	70249774.10 Dr
Infrastructure Housing	37870076.90 Dr	7774128.00 Dr	45644204.90 Dr
<b>Grand Total (B)</b>	<b>333569724.00 Dr</b>	<b>11522255.00 Dr</b>	<b>345091979.00 Dr</b>
<b>XI Plan Grants (Receipts - Utilisation) (A-B)</b>	<b>29098276.00</b>	<b>-11522255.00</b>	<b>17576021.00</b>

**XI Plan Grants Utilisation - Projectwise Break-up**

	As on 31-03-14	Year 14-15	As on 31-03-15
<b>1. High Performance Scientific Computing</b>	<b>112800000.00 Dr</b>	<b>0.00 Dr</b>	<b>112800000.00 Dr</b>
<i>Mach.&amp;Equipment-Cluster Project</i>	<i>90260404.25 Dr</i>	<i>0.00 Dr</i>	<i>90260404.25 Dr</i>
<i>Supplies &amp; Materials-Cluster Project</i>	<i>5669151.00 Dr</i>	<i>0.00 Dr</i>	<i>5669151.00 Dr</i>
<i>Major Work(Elect.&amp;Civil)-Cluster Project</i>	<i>5269922.00 Dr</i>	<i>0.00 Dr</i>	<i>5269922.00 Dr</i>
<i>Salaries-Cluster</i>	<i>1685500.00 Dr</i>	<i>0.00 Dr</i>	<i>1685500.00 Dr</i>
<i>Domestic Travel-Cluster Project</i>	<i>175777.00 Dr</i>	<i>0.00 Dr</i>	<i>175777.00 Dr</i>
<i>Contingency-Cluster Project</i>	<i>8562792.75 Dr</i>	<i>0.00 Dr</i>	<i>8562792.75 Dr</i>
<i>OfficeExpenses-Cluster</i>	<i>591507.00 Dr</i>	<i>0.00 Dr</i>	<i>591507.00 Dr</i>
<i>Office Exp.- Training ( Cluster)</i>	<i>68090.00 Dr</i>	<i>0.00 Dr</i>	<i>68090.00 Dr</i>
<i>Consultancy-Cluster Project</i>	<i>516856.00 Dr</i>	<i>0.00 Dr</i>	<i>516856.00 Dr</i>
<b>2. Scientific Computing &amp; Networking</b>	<b>80500000.00 Dr</b>	<b>0.00 Dr</b>	<b>80500000.00 Dr</b>
Quantum Information Processing & Application	2874399.00 Dr	0.00 Dr	2874399.00 Dr
<i>Machinery &amp; Equipment-Sci.Comp.</i>	<i>39693847.31 Dr</i>	<i>0.00 Dr</i>	<i>39693847.31 Dr</i>
<i>UPS &amp; Batteries-Scientific Computing</i>	<i>9278000.00 Dr</i>	<i>0.00 Dr</i>	<i>9278000.00 Dr</i>
<i>Band Width-Scientific Computing</i>	<i>22997804.00 Dr</i>	<i>0.00 Dr</i>	<i>22997804.00 Dr</i>
<i>Books &amp; Softwares-Sci Comp.</i>	<i>1046854.00 Dr</i>	<i>0.00 Dr</i>	<i>1046854.00 Dr</i>
<i>NKN Project</i>	<i>440681.00 Dr</i>	<i>0.00 Dr</i>	<i>440681.00 Dr</i>
<i>Major Works-Scientific Comp.</i>	<i>2525019.00 Dr</i>	<i>0.00 Dr</i>	<i>2525019.00 Dr</i>
<i>Office Expenses-Scientific Comp.</i>	<i>364075.00 Dr</i>	<i>0.00 Dr</i>	<i>364075.00 Dr</i>
<i>Salary-Scientific Comp. Networking</i>	<i>1279320.69 Dr</i>	<i>0.00 Dr</i>	<i>1279320.69 Dr</i>

**XI Plan Grants Utilisation - Projectwise Break-up**

(contd.....)

	As on 31-03-14	Year 14-15	As on 31-03-15
<b>3. Regional Centre- Accelerator Based Particle Phy</b>	<b>35898000.00 Dr</b>	<b>0.00 Dr</b>	<b>35898000.00 Dr</b>
<i>Recapp-Machinery &amp; Equipments</i>	<i>6900793.00 Dr</i>	<i>0.00 Dr</i>	<i>6900793.00 Dr</i>
<i>Recapp-Backup Media, Printer Supplies,Civil &amp; Elect</i>	<i>6013732.50 Dr</i>	<i>0.00 Dr</i>	<i>6013732.50 Dr</i>
<i>Recapp-Bandwidth</i>	<i>2517213.00 Dr</i>	<i>0.00 Dr</i>	<i>2517213.00 Dr</i>
<i>Recapp-Furniture</i>	<i>576740.00 Dr</i>	<i>0.00 Dr</i>	<i>576740.00 Dr</i>
<i>Softwares-Recapp</i>	<i>811749.00 Dr</i>	<i>0.00 Dr</i>	<i>811749.00 Dr</i>
<i>Recapp-Major Works(Electrical &amp; ACVE)</i>	<i>295705.00 Dr</i>	<i>0.00 Dr</i>	<i>295705.00 Dr</i>
<i>Recapp - Salaries</i>	<i>4671715.00 Dr</i>	<i>0.00 Dr</i>	<i>4671715.00 Dr</i>
<i>Recapp-Domestic Travel</i>	<i>2191512.00 Dr</i>	<i>0.00 Dr</i>	<i>2191512.00 Dr</i>
<i>Recapp-Foreign Travel</i>	<i>2303588.00 Dr</i>	<i>0.00 Dr</i>	<i>2303588.00 Dr</i>
<i>Recapp Office Expenses</i>	<i>1266603.50 Dr</i>	<i>0.00 Dr</i>	<i>1266603.50 Dr</i>
<i>Recapp- Consultancy</i>	<i>710945.00 Dr</i>	<i>0.00 Dr</i>	<i>710945.00 Dr</i>
<i>Collaboration Meetings</i>	<i>6182503.00 Dr</i>	<i>0.00 Dr</i>	<i>6182503.00 Dr</i>
<i>Instructional Workshop in Particle Physics (RECAPP)</i>	<i>499738.00 Dr</i>	<i>0.00 Dr</i>	<i>499738.00 Dr</i>
<i>BITS , PILANI ( Adv )</i>		<i>0.00 Dr</i>	
<i>Recapp Outside Meeting -Advance</i>	<i>550000.00 Dr</i>	<i>0.00 Dr</i>	<i>550000.00 Dr</i>
<i>University of Kalyani (Adv)</i>	<i>75000.00 Dr</i>	<i>0.00 Dr</i>	<i>75000.00 Dr</i>
<i>University of Mumbai (Adv)</i>		<i>0.00 Dr</i>	
<i>WHEPP13 CONFERENCE (Adv)</i>	<i>100000.00 Dr</i>	<i>0.00 Dr</i>	<i>100000.00 Dr</i>
<i>HIGGSTOP-2013, BITS-Pilani</i>	<i>230463.00 Dr</i>	<i>0.00 Dr</i>	<i>230463.00 Dr</i>
<b>4. Infrastructure (Non-Housing)</b>	<b>66501647.10 Dr</b>	<b>3748127.00 Dr</b>	<b>70249774.10 Dr</b>
<i>Contingencies-Infrastructure (Non Housing)</i>			
<i>BWC Meetings</i>	<i>614838.00 Dr</i>	<i>0.00 Dr</i>	<i>614838.00 Dr</i>
<i>Constructions-NKN Project</i>	<i>147498.00 Dr</i>	<i>0.00 Dr</i>	<i>147498.00 Dr</i>
<i>Construction-Student Hostel</i>	<i>2432740.00 Dr</i>	<i>0.00 Dr</i>	<i>2432740.00 Dr</i>
<i>Contingencies-Misc.(Non-Housing)</i>	<i>4511863.00 Dr</i>	<i>0.00 Dr</i>	<i>4511863.00 Dr</i>
<i>Architects Atelier Pvt. Ltd. (Adv.)</i>	<i>984150.00 Dr</i>	<i>0.00 Dr</i>	<i>984150.00 Dr</i>
<i>Civil Works -Infrastructure (Non Housing)</i>	<i>13068054.00 Dr</i>	<i>2255183.00 Dr</i>	<i>15323237.00 Dr</i>
<i>Construction Admin Block</i>	<i>9778672.81 Dr</i>	<i>443688.00 Dr</i>	<i>10222360.81 Dr</i>
<i>Construction Community Centre Extn</i>	<i>3733081.31 Dr</i>	<i>481975.00 Dr</i>	<i>4215056.31 Dr</i>
<i>Construction Engg Section Building</i>	<i>8854577.98 Dr</i>	<i>17346.00 Dr</i>	<i>8871923.98 Dr</i>
<i>Power Requirement &amp; Air-Conditioning</i>	<i>20626122.00 Dr</i>	<i>0.00 Dr</i>	<i>20626122.00 Dr</i>
<i>Salaries - Infrastructure -Non Housing</i>	<i>1750050.00 Dr</i>	<i>549935.00 Dr</i>	<i>2299985.00 Dr</i>
<b>5. Infrastructure Housing</b>	<b>37870076.90 Dr</b>	<b>7774128.00 Dr</b>	<b>45644204.90 Dr</b>
<i>Hostel Building</i>	<i>28418731.90 Dr</i>	<i>7774128.00 Dr</i>	<i>36192859.90 Dr</i>
<i>PDF Housing (Married Appt)</i>	<i>6208717.00 Dr</i>	<i>0.00 Dr</i>	<i>6208717.00 Dr</i>
<i>Advance to DCSEM for Conf Centre &amp; GH</i>	<i>2000000.00 Dr</i>	<i>0.00 Dr</i>	<i>2000000.00 Dr</i>
<i>Contingencies-Misc (Housing)</i>	<i>1242628.00 Dr</i>	<i>0.00 Dr</i>	<i>1242628.00 Dr</i>
<b>Grand Total (1+2+3+4+5)</b>	<b>333569724.00 Dr</b>	<b>11522255.00 Dr</b>	<b>345091979.00 Dr</b>

Schedule 2 forming part of Balance Sheet as at 31st March 2014

**XII Plan Grant Receipts**

	As on 31-03-14	Year 14-15	As on 31-03-15
<b>Grant-Scientific Information Retrieval Development</b>	<b>13400000.00 Cr</b>	<b>8736000.00 Cr</b>	<b>22136000.00 Cr</b>
<b>Grant-Special &amp; Thematic Events in Mathematics</b>	<b>3850000.00 Cr</b>	<b>6970000.00 Cr</b>	<b>10760000.00 Cr</b>
<i>Grant-Analysis &amp; Geometry (STEM)</i>	<i>750000.00 Cr</i>	<i>1010000.00 Cr</i>	<i>1760000.00 Cr</i>
<i>Grant-Explicit Class Field Theory (STEM)</i>	<i>250000.00 Cr</i>	<i>800000.00 Cr</i>	<i>1050000.00 Cr</i>
<i>Grant-Group Theory &amp; Representation Theory (STEM)</i>	<i>750000.00 Cr</i>	<i>2650000.00 Cr</i>	<i>3400000.00 Cr</i>
<i>Grant-Number Theory (STEM)</i>	<i>2100000.00 Cr</i>	<i>2450000.00 Cr</i>	<i>4550000.00 Cr</i>
<b>Grant-Advanced Research Facility for Theoretical Ph</b>	<b>36248000.00</b>	<b>53428000.00 Cr</b>	<b>89676000.00</b>
<i>Grant-Centre for String Interactions (ARFTP)</i>	<i>2641000.00 Cr</i>	<i>4800000.00 Cr</i>	<i>7441000.00 Cr</i>
<i>Grant-Cluster for Strongly Correlated Systems (ARFTP)</i>	<i>9600000.00 Cr</i>	<i>26088000.00 Cr</i>	<i>35688000.00 Cr</i>
<i>Grant-Computing Facilities for T Physics (ARFTP)</i>	<i>19400000.00 Cr</i>	<i>15435000.00 Cr</i>	<i>34835000.00 Cr</i>
<i>Grant-Physics of Quantum Matter (ARFTP)</i>	<i>1547000.00 Cr</i>	<i>4125000.00 Cr</i>	<i>5672000.00 Cr</i>
<i>Grant-QIC (ARFTP)</i>	<i>3060000.00 Cr</i>	<i>2980000.00 Cr</i>	<i>6040000.00 Cr</i>
<b>Grant-RECAPP, Neutrino Physics &amp; Astrophysics</b>	<b>6772000.00</b>	<b>12926000.00 Cr</b>	<b>19698000.00</b>
<i>Grant-Cosmology &amp; High Energy Astrology</i>	<i>298000.00 Cr</i>	<i>1721500.00 Cr</i>	<i>2019500.00 Cr</i>
<i>Grant-Neutrino Physics and Particle</i>	<i>3870000.00 Cr</i>	<i>3290000.00 Cr</i>	<i>7160000.00 Cr</i>
<i>Grant-RECAPP</i>	<i>2604000.00 Cr</i>	<i>7914500.00 Cr</i>	<i>10518500.00 Cr</i>
<b>Grant-Infrastructure Development</b>	<b>3750000.00 Cr</b>	<b>2000000.00 Cr</b>	<b>5750000.00 Cr</b>
<b>Grant-Expansion of HRI Campus</b>	<b>100000.00 Cr</b>	<b>0.00 Cr</b>	<b>100000.00 Cr</b>
<b>Infrastructure (Housing)</b>	<b>0.00 Cr</b>	<b>1000000.00 Cr</b>	<b>1000000.00 Cr</b>
<b>Grand Total (A)</b>	<b>64120000.00 Cr</b>	<b>85000000.00 Cr</b>	<b>149120000.00 Cr</b>

**XII Plan Grants Utilisation**

	As on 31-03-14	Year 14-15	As on 31-03-15
<b>Sc.Information Retrieval Development (Library)</b>	<b>11054055.00 Dr</b>	<b>2995963.00 Dr</b>	<b>14050018.00 Dr</b>
<b>Special and Thematic Events in Mathematics (STEM)</b>	<b>3273767.00 Dr</b>	<b>4364611.00 Dr</b>	<b>7638378.00 Dr</b>
<i>Analysis and Geometry</i>	<i>406862.00 Dr</i>	<i>196978.00 Dr</i>	<i>603840.00 Dr</i>
<i>Explicit Class Field Theory</i>	<i>195103.00 Dr</i>	<i>395258.00 Dr</i>	<i>590361.00 Dr</i>
<i>Group Theory &amp; Representation Theory of Lie Algebra</i>	<i>584156.00 Dr</i>	<i>1111954.00 Dr</i>	<i>1696110.00 Dr</i>
<i>Number Theory</i>	<i>2087646.00 Dr</i>	<i>2660421.00 Dr</i>	<i>4748067.00 Dr</i>
<b>Advance Research Facility for Theoretical Physics</b>	<b>22305355.81 Dr</b>	<b>44297688.56 Dr</b>	<b>66603044.37 Dr</b>
<i>Centre for String Interaction</i>	<i>2606355.00 Dr</i>	<i>1492615.00 Dr</i>	<i>4098970.00 Dr</i>
<i>Cluster for Strongly Correlated Systems</i>	<i>3919501.00 Dr</i>	<i>26674956.06 Dr</i>	<i>30594457.06 Dr</i>
<i>Computing Facilities for Theoretical Physics</i>	<i>12609476.81 Dr</i>	<i>11420877.50 Dr</i>	<i>24030354.31 Dr</i>
<i>Physics of Quantum Matter</i>	<i>1030095.00 Dr</i>	<i>2261271.00 Dr</i>	<i>3291366.00 Dr</i>
<i>Quantum Computing &amp; Information Processing</i>	<i>2139928.00 Dr</i>	<i>2447969.00 Dr</i>	<i>4587897.00 Dr</i>
<b>RECAPP, Neutrino Physics &amp; Astrophysics</b>	<b>4327035.00 Dr</b>	<b>6530813.50 Dr</b>	<b>10857848.50 Dr</b>
<i>Cosmology and High Energy Astrophysics</i>	<i>189654.00 Dr</i>	<i>296961.00 Dr</i>	<i>486615.00 Dr</i>
<i>Neutrino Physics and Particle Astrophysics</i>	<i>3735800.00 Dr</i>	<i>2616651.00 Dr</i>	<i>6352451.00 Dr</i>
<i>RECAPP</i>	<i>401581.00 Dr</i>	<i>3617201.50 Dr</i>	<i>4018782.50 Dr</i>
<b>Expansion of HRI Campus-Purchase of Additional Land</b>	<b>13000.00 Dr</b>	<b>0.00 Dr</b>	<b>13000.00 Dr</b>
<b>Infrastructure Development</b>	<b>0.00 Dr</b>	<b>4566919.00 Dr</b>	<b>4566919.00 Dr</b>
<b>Grand Total (B)</b>	<b>40973212.81 Dr</b>	<b>62755995.06 Dr</b>	<b>103729207.87 Dr</b>

<b>XII Plan Grants (Receipts - Utilisation) (A-B)</b>	<b>23146787.19</b>	<b>22244004.94</b>	<b>45390792.13</b>
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### XIIth Plan Utilisation - Projectwise Break-up

	As on 31-03-14	Year 14-15	As on 31-03-15
<b>1. Sc.Information Retrieval Development (Library)</b>	<b>11054055.00</b>	<b>2995963.00</b>	<b>14050018.00</b>
<i>Library-Machinery &amp; Equipment</i>	46464	170466.00 Dr	216930.00 Dr
<i>Library-Softwares</i>	1105491	0.00 Dr	1105491.00 Dr
<i>Library-Standing Series</i>	1296011.00 Dr	888866.00 Dr	2184877.00 Dr
<i>Library-Supplies &amp; Materials</i>	8466381	1869317.00 Dr	10335698.00 Dr
<i>Library-Office Expenses &amp; Contingencies</i>	139708	67314.00 Dr	207022.00 Dr
<b>2. Special and Thematic Events in Mathematics (STEM)</b>	<b>3273767.00</b>	<b>4364611.00</b>	<b>7638378.00</b>
<b>Analysis and Geometry</b>	<b>406862.00 Dr</b>	<b>196978.00 Dr</b>	<b>603840.00 Dr</b>
<i>Analysis &amp; Geometry-Domestic Travel</i>	122660.00 Dr	56725.00 Dr	179385.00 Dr
<i>Analysis &amp; Geometry-Foreign Travel</i>	0.00 Dr	95253.00 Dr	95253.00 Dr
<i>Analysis &amp; Geometry-Office Expense &amp; Contingency</i>	7750.00 Dr	0.00 Dr	7750.00 Dr
<i>Analysis &amp; Geometry-Consultancy &amp; Meetings</i>	276452.00 Dr	45000.00 Dr	321452.00 Dr
<b>Explicit Class Field Theory</b>	<b>195103.00 Dr</b>	<b>395258.00 Dr</b>	<b>590361.00 Dr</b>
<i>Explicit Class Field Theory-Supplies &amp; Material</i>	109438.00 Dr	74149.00 Dr	183587.00 Dr
<i>Explicit Class Field Theory-Domestic Travel</i>	58665.00 Dr	58299.00 Dr	116964.00 Dr
<i>Explicit Class Field Theory-Foreign Travel</i>	0.00 Dr	222974.00 Dr	222974.00 Dr
<i>Explicit Class Field Theory-Office Expenses &amp; Contingencies</i>	0.00 Dr	586.00 Dr	586.00 Dr
<i>Explicit Class Field Theory-Consultancy &amp; Meeting</i>	27000.00 Dr	39250.00 Dr	66250.00 Dr
<b>Group Theory &amp; Representation Theory of Lie Algebra</b>	<b>584156.00 Dr</b>	<b>1111954.00 Dr</b>	<b>1696110.00 Dr</b>
<i>GTLT-Machinery &amp; Equipment</i>	0.00 Dr	17711.00 Dr	17711.00 Dr
<i>GTLT-Domestic Travel</i>	26708.00 Dr	78608.00 Dr	105316.00 Dr
<i>GTLT-Foreign Travel</i>	319177.00 Dr	241258.00 Dr	560435.00 Dr
<i>GTLT-Office Expenses &amp; Contingencies</i>	0.00 Dr	144936.00 Dr	144936.00 Dr
<i>GTLT-Consultancy &amp; Collab Meetings</i>	238271.00 Dr	629441.00 Dr	867712.00 Dr
<b>Number Theory</b>	<b>2087646.00 Dr</b>	<b>2660421.00 Dr</b>	<b>4748067.00 Dr</b>
<i>Number Theory-Machinery &amp; Equipment</i>	52200.00 Dr	0.00 Dr	52200.00 Dr
<i>Number Theory-Supplies &amp; Materials</i>	39996.00 Dr	7056.00 Dr	47052.00 Dr
<i>Number Theory-Domestic Travel</i>	711202.00 Dr	700917.00 Dr	1412119.00 Dr
<i>Number Theory-Foreign Travel</i>	665067.00 Dr	591543.00 Dr	1256610.00 Dr
<i>Number Theory-Office Expense &amp; Contingency</i>	97465.00 Dr	599440.00 Dr	696905.00 Dr
<i>Number Theory-Consultancy &amp; Collab Meetings</i>	521716.00 Dr	761465.00 Dr	1283181.00 Dr
<b>3. Advance Research Facility for Theoretical Physics</b>	<b>22305355.81</b>	<b>44297688.56</b>	<b>66603044.37</b>
<b>Centre for String Interaction</b>	<b>2606355.00 Dr</b>	<b>1492615.00 Dr</b>	<b>4098970.00 Dr</b>
<i>String Interaction-Machinery &amp; Equipment</i>	253050.00 Dr	27382.00 Dr	280432.00 Dr
<i>String Interaction-Supplies &amp; Materials</i>	40590.00 Dr	91733.00 Dr	132323.00 Dr
<i>String Interaction-Domestic Travel</i>	409453.00 Dr	443099.00 Dr	852552.00 Dr
<i>String Interaction-Foreign Travel</i>	576252.00 Dr	476852.00 Dr	1053104.00 Dr
<i>String Interaction-Office Expense &amp; Contingency</i>	242987.00 Dr	277119.00 Dr	520106.00 Dr
<i>String Interaction-Consultancy &amp; Collab Meeting</i>	1084023.00 Dr	176430.00 Dr	1260453.00 Dr
<b>Cluster for Strongly Correlated Systems</b>	<b>3919501.00 Dr</b>	<b>26674956.06 Dr</b>	<b>30594457.06 Dr</b>
<i>Cluster for Strongly Co System-Mach &amp; Equipments</i>	55625.00 Dr	22092170.06 Dr	22147795.06 Dr
<i>Cluster for Strongly Co System-Supplies &amp; Materials</i>	2605146.00 Dr	3487627.00 Dr	6092773.00 Dr
<i>Cluster for Strongly Co System-Major Works</i>	0.00 Dr	9800.00 Dr	9800.00 Dr
<i>Cluster for Strongly Co System-Salaries</i>	0.00 Dr	448634.00 Dr	448634.00 Dr
<i>Cluster for Strongly Co System-Domestic Travel</i>	0.00 Dr	37479.00 Dr	37479.00 Dr
<i>Cluster for Strongly Co System-Off Exp &amp; Contingency</i>	1258730.00 Dr	596246.00 Dr	1854976.00 Dr
<i>Cluster for Strongly Co System-Consultancy &amp; Collaboration Meetings</i>	0.00 Dr	3000.00 Dr	3000.00 Dr

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### XIIth Plan Utilisation - Projectwise Break-up

	As on 31-03-14	Year 14-15	As on 31-03-15
<b>Computing Facilities for Theoretical Physics</b>	<b>12609476.81 Dr</b>	<b>11420877.50 Dr</b>	<b>24030354.31 Dr</b>
<i>Computing Facilities-Machinery &amp; Equipment</i>	<i>332397.00 Dr</i>	<i>6405440.00 Dr</i>	<i>6737837.00 Dr</i>
<i>Computing Facilities-Supplies &amp; Materials</i>	<i>5155531.50 Dr</i>	<i>4258448.50 Dr</i>	<i>9413980.00 Dr</i>
<i>Computing Facilities-Major Works</i>	<i>23950.00 Dr</i>	<i>0.00 Dr</i>	<i>23950.00 Dr</i>
<i>Computing Facilities-Salaries</i>	<i>333397.31 Dr</i>	<i>660925.00 Dr</i>	<i>994322.31 Dr</i>
<i>Computing Facilities-Off. Expense &amp; Contingency</i>	<i>6741426.00 Dr</i>	<i>96064.00 Dr</i>	<i>6837490.00 Dr</i>
<i>Computing Facilities-Consultancy &amp; Collab meetings</i>	<i>22775.00 Dr</i>	<i>0.00 Dr</i>	<i>22775.00 Dr</i>
<b>Physics of Quantum Matter</b>	<b>1030095.00 Dr</b>	<b>2261271.00 Dr</b>	<b>3291366.00 Dr</b>
<i>Physics of Quantum Matter-Mach. &amp; Equipments</i>	<i>117320.00 Dr</i>	<i>264450.00 Dr</i>	<i>381770.00 Dr</i>
<i>Physics of Quantum Matter-Supplies &amp; Materials</i>	<i>15260.00 Dr</i>	<i>8400.00 Dr</i>	<i>23660.00 Dr</i>
<i>Physics of Quantum Matter-Domestic Travel</i>	<i>127220.00 Dr</i>	<i>135451.00 Dr</i>	<i>262671.00 Dr</i>
<i>Physics of Quantum Matter-Foreign Travel</i>	<i>110189.00 Dr</i>	<i>351042.00 Dr</i>	<i>461231.00 Dr</i>
<i>Physics of Quantum Matter-Off. Exp &amp; Contingency</i>	<i>16600.00 Dr</i>	<i>291103.00 Dr</i>	<i>307703.00 Dr</i>
<i>Consultancy &amp; Collaboration Meetings</i>	<i>643506.00 Dr</i>	<i>1210825.00 Dr</i>	<i>1854331.00 Dr</i>
<b>Quantum Computing &amp; Information Processing</b>	<b>2139928.00 Dr</b>	<b>2447969.00 Dr</b>	<b>4587897.00 Dr</b>
<i>QIC-Machinery &amp; Equipment</i>	<i>282567.00 Dr</i>	<i>715500.00 Dr</i>	<i>998067.00 Dr</i>
<i>QIC-Supplies &amp; Materials</i>	<i>3770.00 Dr</i>	<i>0.00 Dr</i>	<i>3770.00 Dr</i>
<i>QIC-Domestic Travel</i>	<i>184348.00 Dr</i>	<i>262157.00 Dr</i>	<i>446505.00 Dr</i>
<i>QIC-Foreign Travel</i>	<i>400000.00 Dr</i>	<i>404491.00 Dr</i>	<i>804491.00 Dr</i>
<i>QIC-Office Expenses &amp; Contingencies</i>	<i>81470.00 Dr</i>	<i>348911.00 Dr</i>	<i>430381.00 Dr</i>
<i>QIC-Consultancy &amp; Collab Meetings</i>	<i>1187773.00 Dr</i>	<i>716910.00 Dr</i>	<i>1904683.00 Dr</i>
<b>4. RECAPP, Neutrino Physics &amp; Astrophysics</b>	<b>4327035.00</b>	<b>6530813.50</b>	<b>10857848.50</b>
<b>Cosmology and High Energy Astrophysics</b>	<b>189654.00 Dr</b>	<b>296961.00 Dr</b>	<b>486615.00 Dr</b>
<i>Cosmology &amp; HE Astro-Supplies &amp; Materials</i>	<i>0.00 Dr</i>	<i>6370.00 Dr</i>	<i>6370.00 Dr</i>
<i>Cosmology &amp; HE Astro-Domestic Travel</i>	<i>50699.00 Dr</i>	<i>107590.00 Dr</i>	<i>158289.00 Dr</i>
<i>Cosmology &amp; HE Astro-Office Exp. &amp; Contingencies</i>	<i>54000.00 Dr</i>	<i>5989.00 Dr</i>	<i>59989.00 Dr</i>
<i>Cosmology &amp; HE Astro-Consultancy &amp; Colla Meeting</i>	<i>84955.00 Dr</i>	<i>177012.00 Dr</i>	<i>261967.00 Dr</i>
<b>Neutrino Physics and Particle Astrophysics</b>	<b>3735800.00 Dr</b>	<b>2616651.00 Dr</b>	<b>6352451.00 Dr</b>
<i>Neutrino Physics-Machinery &amp; Equipment</i>	<i>0.00 Dr</i>	<i>1403541.00 Dr</i>	<i>1403541.00 Dr</i>
<i>Neutrino Physics-Supplies &amp; Materials</i>	<i>268981.00 Dr</i>	<i>299944.00 Dr</i>	<i>568925.00 Dr</i>
<i>Neutrino Physics-Salaries</i>	<i>0.00 Dr</i>	<i>348844.00 Dr</i>	<i>348844.00 Dr</i>
<i>Neutrino Physics-Domestic Travel</i>	<i>281721.00 Dr</i>	<i>195740.00 Dr</i>	<i>477461.00 Dr</i>
<i>Neutrino Physics-Foreign Travel</i>	<i>733517.00 Dr</i>	<i>97332.00 Dr</i>	<i>830849.00 Dr</i>
<i>Neutrino Physics-Office Expense &amp; Contingencies</i>	<i>1670312.00 Dr</i>	<i>121296.00 Dr</i>	<i>1791608.00 Dr</i>
<i>Neutrino Physics-Office Expense &amp; Contingencies</i>	<i>781269.00 Dr</i>	<i>149954.00 Dr</i>	<i>931223.00 Dr</i>
<b>RECAPP</b>	<b>401581.00 Dr</b>	<b>3617201.50 Dr</b>	<b>4018782.50 Dr</b>
<i>RECAPP(XII)-Machinery &amp; Equipment</i>	<i>0.00 Dr</i>	<i>189166.00 Dr</i>	<i>189166.00 Dr</i>
<i>RECAPP(XII)-Supplies &amp; Materials</i>	<i>0.00 Dr</i>	<i>1041013.50 Dr</i>	<i>1041013.50 Dr</i>
<i>RECAPP(XII)-Salaries</i>	<i>0.00 Dr</i>	<i>412710.00 Dr</i>	<i>412710.00 Dr</i>
<i>RECAPP(XII)-Domestic Travel</i>	<i>189856.00 Dr</i>	<i>423311.00 Dr</i>	<i>613167.00 Dr</i>
<i>RECAPP(XII)-Foreign Travel</i>	<i>85845.00 Dr</i>	<i>302577.00 Dr</i>	<i>388422.00 Dr</i>
<i>RECAPP(XII)-Office Exp &amp; Contingencies</i>	<i>20880.00 Dr</i>	<i>460798.00 Dr</i>	<i>481678.00 Dr</i>
<i>RECAPP(XII)-Consultancy &amp; Collaboration Meetings</i>	<i>105000.00 Dr</i>	<i>787626.00 Dr</i>	<i>892626.00 Dr</i>
<b>5. Expansion of HRI Campus-Purchase of Additional Land</b>	<b>13000.00</b>	<b>0.00</b>	<b>13000.00</b>
<i>Major Works-Expansion of Land</i>	<i>13000.00 Dr</i>	<i>0.00 Dr</i>	<i>13000.00 Dr</i>
<b>6. Infrastructure Development</b>	<b>0.00</b>	<b>4566919.00</b>	<b>4566919.00</b>
<i>Machinery &amp; Equipment</i>	<i>0.00 Dr</i>	<i>2036160.00 Dr</i>	<i>2036160.00 Dr</i>
<i>Major Works</i>	<i>0.00 Dr</i>	<i>2530759.00 Dr</i>	<i>2530759.00 Dr</i>
<b>Grand Total (1+2+3+4+5+6)</b>	<b>40973212.81 Dr</b>	<b>62755995.06 Dr</b>	<b>103729207.87 Dr</b>



Schedule 3 forming part of Balance Sheet as at 31st March 2015

<b>Other Grants &amp; Receipts</b>	<b>As on 31-03-14</b>	<b>As on 31-03-15</b>
<b>DST Projects</b>	<b>1515984.50 Cr</b>	<b>१६५५०५५०</b>
Serc School	27566.50 Cr	27566.50
DST Project - Aarti Girdhar	924.00 Cr	924.00
DST-Project (Satya Deo)	24661.00 Cr	0.00
DST-Projet(NASI)-Satya Deo	449233.00 Cr	356308.00
Grant-Indo-German(DST-DFG) Jt.Research Project	1013600.00 Cr	1013600.00
<i>India-UK Workshop (DST)</i>		
<b>NBHM Projects</b>	<b>1911327.00 Cr</b>	<b>१९५५०५५०</b>
Library Committee Meeting	921989.00 Cr	921989.00
<i>Advanced Instructional School</i>	<i>546800.00 Cr</i>	0.00
<i>AFS-III</i>	<i>0.00 Cr</i>	749000.00
<i>NBHM Fellowships(Year 13-14)</i>	<i>371292.00 Cr</i>	243292.00
<i>NBHM Fund</i>	<i>51246.00 Cr</i>	41791.00
<i>NBHM Ph.D Scholarship Grant to Navin Kumar Jha</i>	<i>20000.00 Cr</i>	20000.00
<b>Swarna Jayanti Fellowships</b>	<b>250277.00 Cr</b>	<b>250277.00</b>
<b>Inspire Faculty Award-R.Prabhu</b>	<b>1191178.00 Cr</b>	<b>836986.00</b>
<b>JC Bose Fellowship to Dr.Ashoke Sen</b>	<b>742089.00 Cr</b>	<b>252465.00</b>
<b>Ramanujan Fellowship-Dr.Anshuman Maharana</b>	<b>440936.00 Cr</b>	<b>627445.00</b>
<b>CSIR</b>	<b>455701.00 Cr</b>	<b>497512.00</b>
CSIR-Spl.Hon.SSB Awardees	500.00 Cr	60500.00
<i>CSIR- A. Mishra</i>	<i>35750.00 Cr</i>	35750.00
<i>CSIR-Arvind Kumar (SPM-Fellowship)</i>	<i>225197.00 Cr</i>	291008.00
<i>CSIR-Grant</i>	<i>69221.00 Cr</i>	69221.00
<i>CSIR-H Mishra</i>	<i>41033.00 Cr</i>	41033.00
<i>CSIR-Mritunjay Kumar Verma (SPM- Fellowship)</i>	<i>84000.00 Cr</i>	0.00
<b>Infosys Foundation Grants</b>	<b>2902735.00 Cr</b>	<b>३००५०५५०</b>
<i>Grant From Infosys Foundation</i>	<i>2500000.00 Cr</i>	2500000.00
<i>Interest on Investment of Infosys Grant</i>	<i>402735.00 Cr</i>	519202.00
<b>HRI-Endowment Fund</b>	<b>0.00 Cr</b>	<b>१०००००.००</b>
<i>HRI-Endowment Fund</i>		1000000.00
<i>Interest on Investment of HRI Endowment Fund</i>		16461.00
<b>Other Grants</b>	<b>1058232.00 Cr</b>	<b>५०५०५५०</b>
IFCPAR Research Project(T.P.Pareek)	355482.00 Cr	355482.00
India - EU Research Project	617459.00 Cr	0.00
Indo-Australia E.CST Fellowship to Dr. Manoj Kumar	21097.00 Cr	0.00
<i>KVPY Summer Programme Support</i>		130000.00
<i>Provision for Payment of Honorarium to Staff</i>	<i>1670.00 Cr</i>	1670.00
<i>Science Education Prog-Indian National Science Acad</i>	<i>23881.00 Cr</i>	13681.00
<i>TPSC Fund</i>	<i>38643.00 Cr</i>	38643.00
<b>Grand Total</b>	<b>10468459.50 Cr</b>	<b>१०६६०५५०</b>



Schedule 5 forming part of Balance Sheet as at 31st March 2015		
Fixed Assets & Depreciation Reserve	As on 31-03-14	As on 31-03-15
<b>a. Land &amp; Building</b>	<b>157401477.85 Dr</b>	<b>157401476.85</b>
<i>Building</i>	157401476.85 Dr	157401476.85
<i>Land</i>	1.00 Dr	1.00
<b>b. Furniture &amp; Fixtures</b>	<b>46149445.32 Dr</b>	<b>46149445.32</b>
<i>Electrical Fittings</i>	24246564.51 Dr	24266058.51
<i>Furniture &amp; Fixtures</i>	21902880.81 Dr	24141904.81
<b>c. Other Assets</b>	<b>42981843.54 Dr</b>	<b>42981843.54</b>
<i>Guest House HRI-Assets</i>	5039970.34 Dr	5162947.34
<i>A.C. &amp; Stabilizers</i>	15585122.60 Dr	15988150.60
<i>Bicycles &amp; Rickshaw Trolley</i>	28748.00 Dr	28748.00
<i>Car-Maruti Esteem</i>	479417.00 Dr	479417.00
<i>Coolers</i>	937086.00 Dr	1102686.00
<i>Electronic Type Writers</i>	174422.25 Dr	174422.25
<i>Elevator</i>	885000.00 Dr	885000.00
<i>Fax Machine</i>	8120.00 Dr	8120.00
<i>Fire Alarm System</i>	741872.00 Dr	741872.00
<i>Fire Extinguisher</i>	488708.00 Dr	488708.00
<i>Generator Sets</i>	10020602.30 Dr	10020602.30
<i>Geysers</i>	834549.05 Dr	834549.05
<i>Projector</i>	1692516.00 Dr	2032236.00
<i>Solar Lights &amp; Batteries</i>	533349.00 Dr	533349.00
<i>Telescope</i>	2731044.00 Dr	2731044.00
<i>Xerox Machines &amp; Stabilizers</i>	2801317.00 Dr	2801317.00
<b>d. Library Assets</b>	<b>212725128.92 Dr</b>	<b>212725128.92</b>
<i>Back Vol. of Journals (ASSET)</i>	83245519.00 Dr	103563014.00
<i>Bar Coding Equip. &amp; Security Systems-Library</i>	1273870.00 Dr	1273870.00
<i>Books &amp; Journal</i>	128205739.92 Dr	129421773.92
<b>e. Machinery &amp; Equipments</b>	<b>229698910.96 Dr</b>	<b>229698910.96</b>
<i>Cluster Computer (XIth Plan)</i>	52249760.00 Dr	52249760.00
<i>Cluster Computer (Xth Plan)</i>	21573474.00 Dr	21573474.00
<i>Computers &amp; Peripherals</i>	128653285.66 Dr	156493236.66
<i>Software</i>	10369118.50 Dr	14522944.50
<i>UPS &amp; Batteries</i>	16853272.80 Dr	19964837.80
<b>f. Misc. Equipments</b>	<b>5663958.41 Dr</b>	<b>5663958.41</b>
<i>Audio / Video Equipments</i>	1956098.00 Dr	2007098.00
<i>Gym.Equipments</i>	238873.00 Dr	238873.00
<i>Health Centre Equipments</i>	299569.00 Dr	299569.00
<i>Misc.Equipments</i>	1319212.70 Dr	1333132.70
<i>Scientific Equipments</i>	142320.71 Dr	142320.71
<i>Telephone Equip.&amp; Appliances</i>	1707885.00 Dr	1707885.00
<b>Gross Value of Fixed Assets (a+b+c+d+e+f)</b>	<b>694620765.00 Dr</b>	<b>754614399.00 Dr</b>
<b>Less: Depreciation Reserve</b>	<b>555232000.85 Cr</b>	<b>60993037.74</b>
<b>Grand Total</b>	<b>139388764.15 Dr</b>	<b>693621361.26 Dr</b>

<b>Schedule 6 forming part of Balance Sheet as at 31st March 2015</b>		
<b>Capital Work in Progress</b>	<b>As on 31-03-14</b>	<b>As on 31-03-15</b>
<i>Admin Building Under Construction</i>	8545811.81 Dr	8545811.81 Dr
<i>Community Centre Annexe Under Construction</i>	3701880.31 Dr	3701880.31 Dr
<i>Engineering Section Building Under Construction</i>	8780508.98 Dr	8780508.98 Dr
<i>Hostel Building Under Construction</i>	26821828.90 Dr	26821828.90 Dr
<b>Grand Total</b>	<b>47850030.00 Dr</b>	<b>47850030.00 Dr</b>

**Schedule 7 forming part of Balance Sheet as at 31st March 2015**

<b>Investments</b>	<b>As on 31-03-14</b>	<b>As on 31-03-15</b>
<i>FDR with BoB</i>	2500000.00 Dr	2500000.00 Dr
<i>FDR With SBI</i>	2155227.00 Dr	2155227.00 Dr
<i>Interest Accrued on Investments</i>	664280.00 Dr	747319.00 Dr
<b>Grand Total</b>	<b>5319507.00 Dr</b>	<b>5402546.00 Dr</b>

**Schedule 8 forming part of Balance Sheet as at 31st March 2015**

<b>Current Assets</b>	<b>As on 31-03-14</b>	<b>As on 31-03-15</b>
<b>Cash-in-hand</b>	<b>47930.25 Dr</b>	35260.00
<b>Bank Accounts</b>	<b>90299448.07 Dr</b>	<b>146745539.32 Dr</b>
<i>Bank of Baroda - 30070100006893(A/c 101)</i>	6762468.18 Dr	30238175.43
<i>Bank of Baroda-30070100006902(A/c 102)</i>	59092056.19 Dr	89661856.19
<i>Bank of Baroda - 30070100011078(A/c 108)</i>	13013679.88 Dr	12200811.88
<i>Bank of Baroda - 30070100011079(A/c 109)</i>	2445422.85 Dr	3632676.85
<i>Bank of Baroda - 30070100015151(A/c Endowment fund)</i>	0.00 Dr	1016461.00
<i>NPS-Bank A/c (30070100012526)</i>	1556446.00 Dr	1827493.00
<i>S.B.I. (M.B.) Current A/c</i>	723876.97 Dr	723721.97
<i>Short Term Deposits with BoB</i>	5477594.00 Dr	7208547.00
<i>Interest Accrued on Short Term Dep. with Banks</i>	1227904.00 Dr	235796.00
<b>Postage in Hand/Frinking(B/S)</b>	<b>4860.12 Dr</b>	<b>3024.12</b>
<b>Advance for Journals</b>	<b>19566810.54 Dr</b>	<b>19819956.54 Dr</b>
<i>Allahabad Mathematical Society (Adv)</i>	5500.00 Dr	1000.00
<i>Alliance Books Suppliers (Pvt.)Ltd. (Adv)</i>	156849.00 Dr	174622.00
<i>Allied Pub. Subs. Agency (Adv)</i>	960408.00 Dr	1008142.00
<i>Calcutta Mathematical Society (Adv)</i>	917.00 Dr	2750.00
<i>Cyber media ( India) Pvt.Ltd.</i>	0.00 Dr	3575.00
<i>D.S. Information Services Pvt. Ltd. (Adv)</i>	1743064.00 Dr	1852038.00
<i>D.S. Subscription Agency (Adv)</i>	1015604.00 Dr	1067146.00
<i>Duke University Press (Adv)</i>	151479.00 Dr	80895.00
<i>Globe Publications, N.Delhi (Adv)</i>	2034759.00 Dr	1694058.00
<i>IGroup Infotech India Pvt. Ltd. (Adv)</i>	181629.00 Dr	183138.00
<i>Indian Academy of Science (Adv)</i>	5913.00 Dr	7875.00
<i>Indian Mathematical Society (Adv)</i>	12000.00 Dr	1000.00
<i>Institute of Mathematical Sciences (Adv)</i>	93237.00 Dr	14722.00
<i>International Subscription Agency (Adv)</i>	9282389.54 Dr	9544114.54
<i>Lakshmi Periodicals &amp; Books Pvt. Ltd. (Adv)</i>	899944.00 Dr	935047.00
<i>M/s JSTOR USA (Adv)</i>	0.00 Dr	18685.00
<i>Narosa Information Services (Adv)</i>	1764350.00 Dr	1856741.00
<i>Nature Publishing Group (Adv)</i>	180251.00 Dr	0.00
<i>Ramanujan Mathematical Society (Adv)</i>	2300.00 Dr	0.00
<i>Total I.T. Solution (Adv)</i>	1076217.00 Dr	1374408

(contd.....)

Schedule 8 forming part of Balance Sheet as at 31st March 2015

<b>Current Assets</b>	<b>As on 31-03-14</b>	<b>As on 31-03-15</b>
<b>Deposits (Asset)</b>	<b>6216348.67 Dr</b>	<b>5079000.00</b>
<i>Fixed Deposits-Securities (in Hand)</i>	<i>3337668.00 Dr</i>	<i>4173427.00</i>
<i>Security with Gas Service</i>	<i>39900.00 Dr</i>	<i>39900.00</i>
<i>Security with Telephone Deptt.</i>	<i>264580.67 Dr</i>	<i>264580.67</i>
<i>Security with UPSEB</i>	<i>2574200.00 Dr</i>	<i>2574200.00</i>
<b>Advances for Travel/Abroad Travel</b>	<b>279906.00 Dr</b>	<b>200000.00</b>
<b>Advances Recoverable Ag. Salaries</b>	<b>477686.00 Dr</b>	<b>200000.00</b>
<i>Loans &amp; Advances (Staff)</i>	<i>9.00 Dr</i>	<i>0.00</i>
<i>Festival Advance</i>	<i>29250.00 Dr</i>	<i>32025.00</i>
<i>Medical Advance</i>	<i>353005.00 Dr</i>	<i>0.00</i>
<i>Vehicle Advance</i>	<i>63422.00 Dr</i>	<i>58172.00</i>
<i>Computer Advance</i>	<i>32000.00 Dr</i>	<i>12800.00</i>
<b>Claims Receivable (a+b+c+d+e)</b>	<b>10050864.00 Dr</b>	<b>2433331.00 Dr</b>
<b>a. Amount Recoverable Against Completed Projects / scheme</b>	<b>1117666.00 Dr</b>	<b>1000000.00</b>
<i>Finance Officer, H.N.B. Garhwal University</i>	<i>40000.00 Dr</i>	<i>40000.00</i>
<i>Grant Receivable-DST-SFT (Manoj Kumar)</i>	<i>33961.00 Dr</i>	<i>33961.00</i>
<i>Grant Receivable-NBHM (K. Gongopadhyay)</i>	<i>47533.00 Dr</i>	<i>47533.00</i>
<i>Grant Receivable-NBHM (Joseph Samuel)</i>	<i>17030.00 Dr</i>	<i>17030.00</i>
<i>INO Conference-Recoverable</i>	<i>784525.00 Dr</i>	<i>740924.00</i>
<i>NBHM Fellowships</i>	<i>185867.00 Dr</i>	<i>185867.00</i>
<i>Ramanujan Math Society (DST Meeting)</i>	<i>8750.00 Dr</i>	<i>8750.00</i>
<b>b. Other-Claims Receivables (Staff)</b>	<b>131934.00 Dr</b>	<b>100000.00</b>
<b>c. Others-Claims Receivables (Parties)</b>	<b>8214361.00 Dr</b>	<b>1000000.00</b>
<b>d. Payments Against Ongoing Sponsored Projects / Schemes</b>	<b>584140.00 Dr</b>	<b>1000000.00</b>
<i>Grant Receivable-JEST Examination</i>	<i>129411.00 Dr</i>	<i>0.00</i>
<i>Indian Institute of Technology-Guwahati</i>	<i>30000.00 Dr</i>	<i>30000.00</i>
<i>International Conference "B Physics at the LHC"</i>	<i>593.00 Dr</i>	<i>593.00</i>
<i>ISCQI-2008-Bhubaneshwar</i>	<i>25000.00 Dr</i>	<i>25000.00</i>
<i>JEST Examination Expenses</i>	<i>193136.00 Dr</i>	<i>258525.00</i>
<i>Kerala School Of Mathematics</i>	<i>150000.00 Dr</i>	<i>0.00</i>
<i>Grant Receivable ( CSIR) Mrityunjay Kumar Verma</i>	<i>0.00 Dr</i>	<i>137952.00</i>
<i>Registrar, IIT Kanpur</i>	<i>6000.00 Dr</i>	<i>6000.00</i>
<i>Registrar, IIT Roorkee</i>	<i>50000.00 Dr</i>	<i>50000.00</i>
<b>e. Interest Accrued on Loans-Computer &amp; Vehicle to Staff</b>	<b>2763.00 Dr</b>	<b>100000.00</b>
<b>Grand Total</b>	<b>126943853.65 Dr</b>	<b>2000000.00</b>

Harish-Chandra Research Institute Allahabad  
Statement of Fixed Assets , Depreciation & Depreciation Fund  
Schedule 5-forming part of Balance Sheet as at 31st March 2015

Gross Block									
Sl.No.	Description	Gross Block of Assets			Additions/Deductions during the year				Total Gross Block of Assets as on 31.03.15
		(Other than XIth Plan) as on 31.03.14	(From XIth Plan Grants) as on 31.03.14	Opening Gross Block of Assets as on 01.04.2014	Funded from Non-Plan Grants as on 31.03.2015	Deductions	Gross Block of Assets ( Non-Plan Grants) as on 31.03.2015	Funded from Plan Grant as on 31.03.2015	
1	2	3	4	(3+4)=5	6	7	(6-7)=8	9	(8+9)=10
1	<b>Land &amp; Building</b>	<b>150237007.85</b>	<b>7164470.00</b>	<b>157401477.85</b>	<b>0.00</b>		<b>157401477.85</b>	<b>0.00</b>	<b>157401477.85</b>
1	Land	1.00		1.00			1.00		1.00
2	Building	150237006.85	7164470.00	157401476.85			157401476.85		157401476.85
2	<b>Furniture &amp; Fixtures</b>	<b>45082979.32</b>	<b>1066466.00</b>	<b>46149445.32</b>	<b>48413.00</b>	<b>0.00</b>	<b>46197858.32</b>	<b>2210105.00</b>	<b>48407963.32</b>
1	Furniture & Fixture	21795313.81	107567.00	21902880.81	28919.00		21931799.81	2210105.00	24141904.81
2	Electrical Fittings	23287665.51	958899.00	24246564.51	19494.00		24266058.51		24266058.51
3	<b>Other Assets</b>	<b>37151674.20</b>	<b>753469.00</b>	<b>37941873.20</b>	<b>514820.00</b>	<b>908652.00</b>	<b>37548041.20</b>	<b>1302180.00</b>	<b>38850221.20</b>
1	A.C. & Stabilizers	14831653.60	753469.00	15585122.60	9500.00	908652.00	14685970.60	1302180.00	15988150.60
2	Bicycles & Rickshaw Trolley	28748.00		28748.00			28748.00		28748.00
3	Car-Manuit Esteem	479417.00		479417.00			479417.00		479417.00
4	Coolers	937086.00		937086.00	165600.00		1102686.00		1102686.00
5	Electronic Typewriters	174422.25		174422.25			174422.25		174422.25
6	Elevator	885000.00		885000.00			885000.00		885000.00
7	Fax Machine	8120.00		8120.00			8120.00		8120.00
8	Fire Alarm System	741872.00		741872.00			741872.00		741872.00
9	Fire Extinguishers	488708.00		488708.00			488708.00		488708.00
10	Generator Sets	10020602.30		10020602.30			10020602.30		10020602.30
11	Geysers	834549.05		834549.05			834549.05		834549.05
12	Projector	1692516.00		1692516.00	339720.00		2032236.00		2032236.00
13	Telescope	2731044.00		2731044.00			2731044.00		2731044.00
14	Solar Light	533349.00		533349.00			533349.00		533349.00
15	Xerox machine	2801317.00		2801317.00			2801317.00		2801317.00
3-A	<b>Guest House Assets</b>	<b>5039970.34</b>	<b>0.00</b>	<b>5039970.34</b>	<b>167967.00</b>	<b>44990.00</b>	<b>5162947.34</b>	<b>0.00</b>	<b>5162947.34</b>
1	Furniture & Fixture-Guest House	944621.42		944621.42			944621.42		944621.42
2	Kitchen Equipments	1357473.00		1357473.00	51889.00	17990.00	1391372.00		1391372.00
3	Refrigerators	767539.80		767539.80	95438.00	27000.00	835977.80		835977.80
4	Television	410448.70		410448.70			410448.70		410448.70
5	Room Heaters	211843.98		211843.98			211843.98		211843.98
6	Tullu Pump	175585.44		175585.44			175585.44		175585.44
7	Washing Machine	459010.00		459010.00			459010.00		459010.00
8	Water Filter & Aqua guards	713448.00		713448.00	20640.00		734088.00		734088.00
4	<b>Library Assets</b>	<b>185199777.92</b>	<b>27525351.00</b>	<b>212725128.92</b>	<b>18705997.00</b>	<b>0.00</b>	<b>231431125.92</b>	<b>2827532.00</b>	<b>234258657.92</b>
1	Back Vol. Of Journal	83245519.00		83245519.00	18452978.00		101698497.00	1864517.00	103563014.00
2	Books & Journal	100680388.92	27525351.00	128205739.92	253019.00		128458758.92	963015.00	129421773.92
3	Bar Coding & Security Equip.	1273870.00		1273870.00			1273870.00		1273870.00
5	<b>Machinery &amp; Equipments</b>	<b>185603913.71</b>	<b>4409497.25</b>	<b>229698910.96</b>	<b>149075.00</b>	<b>324500.00</b>	<b>229523485.96</b>	<b>35280767.00</b>	<b>264804252.96</b>
1	Cluster Computer - Xth Plan	21573474.00		21573474.00			21573474.00		21573474.00
2	Cluster Computer - XIth Plan	52249760.00		52249760.00			52249760.00		52249760.00
3	Computers & Peripherals	86873409.41	41779876.25	128653285.66			128653285.66	27839951.00	156493236.66
4	U.P.S. & Batteries	15643642.80	1209630.00	16853272.80	134675.00	324500.00	16663447.80	3301390.00	19964837.80
5	Software	9263627.50	1105491.00	10369118.50	14400.00		10383518.50	4139426.00	14522944.50
6	<b>Misc. Equipments</b>	<b>5572689.41</b>	<b>91269.00</b>	<b>5663958.41</b>	<b>64920.00</b>	<b>0.00</b>	<b>5728878.41</b>	<b>0.00</b>	<b>5728878.41</b>
1	Audio/Video System	1872119.00	83979.00	1956098.00	51000.00		2007098.00		2007098.00
2	Gym. Equipments	238873.00		238873.00			238873.00		238873.00
3	Health Center Equipment	299569.00		299569.00			299569.00		299569.00
4	Misc. Equipments	1311922.70	7290.00	1319212.70	13920.00		1333132.70		1333132.70
5	Scientific Equipments	142320.71		142320.71			142320.71		142320.71
6	Telephone Equipments & Appt.	1707885.00		1707885.00			1707885.00		1707885.00
<b>Grand Total====&gt;</b>		<b>604979699.75</b>	<b>17297610.00</b>	<b>622276309.75</b>	<b>19651192.00</b>	<b>1278142.00</b>	<b>642057851.75</b>	<b>41620584.00</b>	<b>683683635.75</b>
						Capitalised upto last year		694620765.00	
						Add : Capitalised From Non Plan		19651192.00	
						Add : Capitalised From Plan		41620584.00	
						Less : Sold out / Buy Back		-1278142.00	
						Total Value of Capitalised Assets		706499597.00	

Harish-Chandra Research Institute Allahabad  
Statement of Fixed Assets , Depreciation & Depreciation Fund  
Schedule 5 -forming part of Balance Sheet as at 31st March 2015

Gross Block		Depreciation Reserve							Net Block of Assets
Sl.No.	Description	Depreciation Rate %	W.D.V.as on 31.03.14	Deprecation Charged on value (Total Gross Block- Total Cumulative Dep. Reserve upto last year)	Depreciation for the year 2014-15	Cumulative Dep. Reserve as on 31.03.2014	Adjustments	Depreciation Reserve up to 31.03.2015	W.D.V.as on 31.03.15
1	2	11	12	(10-15)=13	14	15	16	17	18
1	2	8	9=(3-12)	10=(7-12)	11	12	13	14=(12+11-13)	15=(7-14)
<b>1</b>	<b>Land &amp; Building</b>	<b>10%</b>	<b>45228241.59</b>	<b>45228241.59</b>	<b>4522824.06</b>	<b>112173236.26</b>	<b>0.00</b>	<b>116696060.32</b>	<b>40705417.53</b>
1	Land		1.00	1.00	0.00	0.00		0.00	1.00
2	Building	10%	45228240.59	45228240.59	4522824.06	112173236.26		116696060.32	40705416.53
<b>2</b>	<b>Furniture &amp; Fixtures</b>	<b>10%</b>	<b>16856361.23</b>	<b>19114879.22</b>	<b>1911487.91</b>	<b>29293084.10</b>	<b>0.00</b>	<b>31204572.02</b>	<b>17203391.30</b>
1	Furniture & Fixture	10%	8460660.63	10699684.62	1069968.46	13442220.18	0.00	14512188.64	9629716.17
2	Electrical Fittings	10%	8395700.60	8415194.59	841519.46	15850863.92	0.00	16692383.38	7573675.13
<b>3</b>	<b>Other Assets</b>	<b>15%</b>	<b>11180355.88</b>	<b>12088703.89</b>	<b>1813610.12</b>	<b>26761517.32</b>	<b>545796.00</b>	<b>28029331.43</b>	<b>10820889.77</b>
1	A.C. & Stabilizers	15%	4373086.89	4776114.88	716417.23	11212035.72	545796.00	11382656.95	4605493.65
2	Bicycles & Rickshaw Trolly	15%	9779.62	9779.62	1466.94	18968.38	0.00	20435.32	8312.68
3	Car-Maruit Esteem	15%	35688.47	35688.48	5353.27	443728.52	0.00	449081.79	30335.21
4	Coolers	15%	230166.66	395766.65	59365.00	706919.35	0.00	766284.35	336401.65
5	Electronic Typewriters	15%	61199.82	61199.82	9179.97	113222.43	0.00	122402.40	52019.85
6	Elevator	15%	107001.36	107001.36	16050.20	777998.64	0.00	794048.84	90951.16
7	Fax Machine	15%	3062.46	3062.46	459.37	5057.54	0.00	5516.91	2603.09
8	Fire Alarm System	15%	263867.83	263867.83	39580.17	478004.17	0.00	517584.34	224287.66
9	Fire Extinguishers	15%	191188.92	191188.92	28678.34	297519.08	0.00	326197.42	162510.58
10	Generator Sets	15%	3794457.81	3794457.81	569168.67	6226144.49	0.00	6795313.16	3225289.14
11	Geysers	15%	188260.84	188260.84	28239.13	646288.21	0.00	674527.34	160021.71
12	Projector	15%	536845.13	876565.12	131484.77	1155670.88	0.00	1287155.65	745080.35
13	Telescope	15%	287014.40	287014.40	43052.16	2444029.60	0.00	2487081.76	243962.24
14	Solar Light	80%	468.52	468.52	374.82	532880.48	0.00	533255.30	93.70
15	Xerox machine	15%	1098267.18	1098267.18	164740.08	1703049.82		1867789.90	933527.10
<b>3-A</b>	<b>Guest House Assets</b>	<b>10%</b>	<b>1965740.93</b>	<b>2088717.95</b>	<b>291403.35</b>	<b>3074229.41</b>	<b>19717.00</b>	<b>3345915.74</b>	<b>1817031.59</b>
1	Furniture & Fixture-Guest House	10%	548348.05	438087.05	43808.71	506534.37	0.00	550343.08	394278.35
2	Kitchen Equipments	15%	311467.25	455627.25	68344.09	935744.75	12224.00	991864.84	399507.16
3	Refrigerators	15%	313070.74	381508.74	57226.31	454469.06	7493.00	504202.37	331775.43
4	Television	15%	82139.84	82139.83	12320.97	328308.87	0.00	340629.84	69818.86
5	Room Heaters	15%	64094.15	64094.15	9614.12	147749.83	0.00	157363.95	54480.03
6	Tullu Pump	15%	59276.52	59276.52	8891.48	116308.92	0.00	125200.40	50385.04
7	Washing Machine	15%	301196.63	301196.63	45179.49	157813.37		202992.86	256017.14
8	Water Filter & Aqua guards	15%	286147.77	306787.77	46018.17	427300.23	0.00	473318.40	260769.60
<b>4</b>	<b>Library Assets</b>	<b>25%</b>	<b>33407757.74</b>	<b>54941286.74</b>	<b>13735321.69</b>	<b>179317371.18</b>	<b>0.00</b>	<b>193052692.87</b>	<b>41205965.06</b>
1	Back Vol. Of Journal	25%	9264692.80	29582187.80	7395546.95	73980826.20	0.00	81376373.15	22186640.85
2	Books & Journal	25%	23940217.53	25156251.53	6289062.88	104265522.39	0.00	110554585.27	18867188.65
3	Bar Coding & Security Equip.	25%	202847.42	202847.41	50711.85	1071022.59	0.00	1121734.44	152135.56
<b>5</b>	<b>Machinery &amp; Equipments</b>	<b>60%</b>	<b>28962003.10</b>	<b>64067345.10</b>	<b>38440407.06</b>	<b>200736907.86</b>	<b>319666.00</b>	<b>238857648.92</b>	<b>25946604.04</b>
1	Cluster Computer - Xth Plan	60%	159609.19	159609.19	95765.51	21413864.81	0.00	21509630.32	63843.68
2	Cluster Computer - XIth Plan	60%	2348919.59	2348919.59	1409351.75	49900840.41	0.00	51310192.16	939567.84
3	Computers & Peripherals	60%	24760030.46	5259981.46	3155988.88	103893255.20		135453244.08	21039992.58
4	U.P.S. & Batteries	60%	867672.74	3979237.74	2387542.64	15985600.06	319666.00	18053476.70	1911361.10
5	Software	60%	825771.12	4979597.12	2987758.27	9543347.38	0.00	12531105.65	1991838.85
<b>6</b>	<b>Misc. Equipments</b>	<b>15%</b>	<b>1788303.64</b>	<b>1853223.64</b>	<b>277983.55</b>	<b>3875654.77</b>	<b>0.00</b>	<b>4153638.32</b>	<b>1575240.09</b>
1	Audio/Video System	15%	904012.77	955012.77	143251.92	1052085.23	0.00	1195337.15	811760.85
2	Gym. Equipments	15%	139602.84	139602.84	20940.43	99270.16	0.00	120210.59	118662.41
3	Health Center Equipment	15%	135411.05	135411.05	20311.66	164157.95	0.00	184469.61	115099.39
4	Misc. Equipments	15%	280319.58	294239.58	44135.94	1038893.12	0.00	1083029.06	250103.64
5	Scientific Equipments	15%	6489.75	6489.75	973.46	135830.96	0.00	136804.42	5516.29
6	Telephone Equipments & Appt.	15%	322467.65	322467.65	48370.15	1385417.35	0.00	1433787.50	274097.50
<b>Grand Total=&gt;</b>			<b>139388764.13</b>	<b>199382398.13</b>	<b>60993037.74</b>	<b>555232000.87</b>	<b>885179.00</b>	<b>615339859.59</b>	<b>139274539.40</b>

Schedule 9 forming part of Balance Sheet as at 31st March 2015

Non-Plan Salary Expenses		Year 14-15	
<b>Pay &amp; Allowances</b>			<b>80520865.00 Dr</b>
72782805.00 Dr	Employees Remunerations	78851959.00 Dr	
610511.00 Dr	Children Education Allowance	656162.00 Dr	
1082997.00 Dr	LTC to Staff	1661600.00 Dr	
330211.00 Cr	Recovery of License Fee	-648856.00 Cr	
<b>Honorarium &amp; Scholarships</b>			<b>1886325.00 Dr</b>
291192.00 Dr	Teaching Grant-Academics	0.00 Dr	
755821.00 Dr	Honorarium	643696.00 Dr	
2453234.00 Dr	Contingency Grant to SRF's/JRF's	1242629.00 Dr	
<b>Fellowships</b>			<b>29766786.00 Dr</b>
<b>CPF (Employer's Contribution)</b>			<b>15800.00 Dr</b>
<b>NPS</b>			<b>2280564.00 Dr</b>
<b>Pension</b>			<b>3486935.00 Dr</b>
<b>Retirement Benefits(Gratuity Etc.)</b>			<b>7458359.00 Dr</b>
578759.00 Dr	Commutation of Pension	264699.00 Dr	
559170.00 Dr	EL Encashment on Retirement	1443634.00 Dr	
0.00 Dr	Leave Salary Contribution	9990.00 Dr	
922631.00 Dr	Gratuity	5740036.00 Dr	
<b>Medical-Reimbursement</b>			<b>4028806.00 Dr</b>
1938082.00 Dr	Health Centre Expenses	2318547.00 Dr	
975929.00 Dr	Medical Assistance Indoor	693825.00 Dr	
422194.00 Dr	Medical Assistance Outdoor	429643.00 Dr	
642511.00 Dr	Medical Assistance Prolonged Treatment	694636.00 Dr	
467131.00 Dr	Medical Assistance-Spl.Procedures	419430.00 Dr	
49814.00 Dr	TA/DA - for Medical Purpose	33235.00 Dr	
613042.00 Cr	Contributory Medical Scheme(CMS)	-560510.00 Cr	
<b>TOTAL (a+b+c+d+e+f+g+h)</b>			<b>129444440.00 Dr</b>



Schedule 10 forming part of Balance Sheet as at 31st March 2015

Non-Plan Non-Salary Expenses		Year 2014-15	
139450.00	a. Overtime Allowances		147800.00 Dr
1301910.00	b. Domestic Travel Expenses		1488805.00 Dr
499772.00	c. Foreign Travel Expenses		774275.00 Dr
4514332.00 Dr	d. Office Expenses		5548225.50 Dr
44238.00 Dr	Furniture & Fixture	28919.00 Dr	
2102701.00 Dr	Pur. & Maint. of Office Equipment	2905627.00 Dr	
356776.00 Dr	Stationary & Printing	381775.00 Dr	
69794.00 Dr	Postage	130877.00 Dr	
971199.00 Dr	Canteen	1059608.50 Dr	
969624.00 Dr	Telephone, Telex, Telegrams Etc.	1041419.00 Dr	
	<b>e. Library &amp; Publications</b>		<b>18568077.00 Dr</b>
18128268.00 Dr	Current Journals	18234250.00 Dr	
62672.00 Dr	Publication of Report	80808.00 Dr	
216034.00 Dr	Purchase of Books	253019.00 Dr	
	<b>f. Supplies &amp; Materials consumed</b>		<b>560205.00 Dr</b>
	<b>g. Minor Works &amp; Maintenance</b>		<b>57579647.00 Dr</b>
2560707.00 Dr	Civil Maintenance	5650484.00 Dr	
2160200.00 Dr	Maintenance of Lawns	1482159.00 Dr	
10393997.00 Dr	Maintenance of Security Services	11129370.00 Dr	
15021836.00 Dr	Watch & Ward and House-Keeping Services	16432374.00 Dr	
20073295.00 Dr	Electricity Charges	22885260.00 Dr	
	<b>h. Machinery &amp; Equipments Maintenance</b>		<b>7815925.00 Dr</b>
1489778.00 Dr	Maintenance of Elect. Installations	1494635.00 Dr	
2636050.00 Dr	Maintenance of Generator	1782643.00 Dr	
597903.00 Dr	Misc. Equipments-Purchase & Maintenance	2301608.00 Dr	
84945.00 Dr	Maintenance of Aqua Guards	55352.00 Dr	
1328937.00 Dr	Maintenance of Air-Conditioners	2025016.00 Dr	
167645.00 Dr	Maintenance of Fire Extinguishers	8600.00 Dr	
68836.00 Dr	Maintenance of Gas Bank	18036.00 Dr	
77711.00 Dr	Maintenance of Photocopiers	130035.00 Dr	
	<b>i. Conferences/Seminars</b>		<b>850473.00 Dr</b>
	<b>j. Motor Vehicles</b>		<b>4515429.00 Dr</b>
	<b>k. Other Expenses</b>		<b>4221719.50 Dr</b>
2463607.00 Dr	Guest House Maintenance	2511428.50 Dr	
67220.00 Dr	Consultancy & Legal Expenses	82695.00 Dr	
442195.00 Dr	Advertisement	328110.00 Dr	
30088.00 Dr	Bank Comm.	27827.00 Dr	
13840.00 Dr	Binding Charges	81615.00 Dr	
191340.00 Dr	Cable TV Expenses	187890.00 Dr	
18726.00 Dr	Liveries	7187.00 Dr	
161772.00 Dr	Misc. Expenses	49516.00 Dr	
59638.00 Dr	News Paper & Periodicals	66673.00 Dr	
90559.00 Dr	Office Expenses	110278.00 Dr	
30000.00 Dr	SPIC-MACAY Chapter	39238.00 Dr	
118913.00 Dr	Sports & Other Activities	163616.00 Dr	
190842.00 Dr	Swimming Pool Maintenance	200517.00 Dr	
0.00 Dr	Loss on Sale of Assets	365129.00 Dr	
22472.00	l. Audit Fees		22800.00 Dr
<b>91142631.00 Dr</b>	<b>Grand Total (a+b+c+d+e+f+g+h+i+j+k+l)</b>		<b>102093381.00 Dr</b>

## HARISH CHANDRA RESEARCH INSTITUTE ALLAHABAD

**SCHEDULE-11** FORMING PART OF BALANCE SHEET AND INCOME AND EXPENDITURE ACCOUNT FOR THE YEAR ENDED ON 31st MARCH 2015

### SIGNIFICANT ACCOUNTING POLICIES & NOTES ON ACCOUNTS

#### Basis of Accounting

1. The accounts are prepared under historical cost convention on an accrual basis.
2. Accounting policies not specifically referred to otherwise are consistent and in consonance with generally accepted accounting principles except as stated in Sl.Nos.9, 10 & 12 below.
3. Figures of the previous year and current year have been regrouped wherever necessary to confirm classification.

#### Fixed Assets

4. Fixed Assets are stated at cost of acquisition inclusive of freight, duties, taxes and incidental expenses related to the acquisition. The Fixed Assets are subject to physical verification.
5. Realization made from Sale of Assets & Scrap is taken as Non-Recurring Income in the year of receipt.

#### Depreciation

6. Depreciation on Fixed Assets has been provided on written down value method as per rates specified in the Income Tax Act, 1961.

A. Land	:	NIL
B. Building	:	10%
C. Plant, Machinery & Equipment	:	15%
D. Vehicles	:	15%
E. Furniture & Fixtures	:	10%
F. Office Equipments	:	15%

G. Computer/ Peripherals	:	60%
H. Electrical Installations	:	10%
I. Books & Journals	:	25%
J. Other Fixed Assets	:	15%
K. Solar Lights & Systems	:	80%

- 6.1 Depreciation has been charged for the full year on additions made during the year. No Depreciation is charged on assets, which is sold during the year.

#### Investment

7. Investments are valued at cost plus interest accrued thereon.

#### Plan Funds

8. Assets purchased from Plan funds Rs. 4,16,20,584.00 & Non-Plan funds Rs. 1,96,51,192.00 during the year have been capitalized under the appropriate heads of accounts of Fixed Assets.

#### Funds for Projects/Schemes

9. All grants in respect of projects/ schemes are accounted on realization basis. The unspent amount of grants received in respect of the projects/ schemes is shown under Current Liabilities in the Balance Sheet under the head "Receipts against ongoing sponsored projects/ schemes" and excess of payments made over the grants received in respect Project/ schemes are shown under Current Assets in the Balance Sheet under the head "Payments against ongoing sponsored Projects/ Schemes".

#### Expenses

10. Consumable, stores and stationary are charged to the Income and Expenditure Account in the year of its purchase.
11. Email, VSAT facility, Internet/ Broadband charges, Annual Maintenance charges of fixed assets, Up-date Allowances, PRIE are charged to the Income & Expenditure account in the year of its payment. Rent receipts are taken into Income & Expenditure account on cash basis.
12. Deferred Revenue Expenditure incurred on composite work of Power Line is to be written off 1/ 10<sup>th</sup> per year over a period of ten years.

#### Income/Receipts

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

#### Retirement Benefits

14. Provision for accrued liability towards Gratuity, Leave Encashment and Pension has been made on actuarial valuation basis.
15. Interest Liability on NPS balances has not been provided for.

#### Taxation

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

As per our separate report of even date attached.

Vibhuti Agrawal & Co.

Chartered Accountants

Sd/-  
Vibhuti Agrawal  
Proprietor

Sd/-  
(Raaj Gulati)  
Accounts Officer

Sd/-  
(Ravindra Singh)  
Registrar

Sd/-  
(Jayanta KBhattacharjee)  
Director

Place: Allahabad

Date:11-08-15

## Action Taken on Auditors Report – FY 2014-15

S.No.	Notes on Accounts	Compliance
1.	An amount of Rs.4,78,50,030/- has been shown as CWIP of which construction has stopped through ADA order.	<p>The construction work of four buildings 'Hostel', Extension of Institute Building, Library, Computer Centre', 'Engineering Building' and 'Community Centre Annexe' was stopped in Feb 2013 due to the ruling of Hon'ble High Court, Allahabad. The Hon'ble High Court has 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. According to the report of Adjunct Curie appointed by Hon'ble High Court, HRI falls within this prohibited zone of 500 meters. This was reported to the Governing Council in its meeting dated 20-03-2013. Out of the four, two buildings namely 'Engineering Building' and 'Community Centre Annexe' were ready and is now in our possession/use.</p> <p>2. In the last BWC meeting held on 15-03-2014 (the decisions of the BWC meeting were subsequently approved by the Governing Council), Joint Secretary (Finance) opined that in case the necessary relief is not forthcoming, the force majeure clause may have to be invoked and the contract foreclosed by mutual consent. Accordingly our proposal for foreclosure was sent to DAE vide letter no HRI/157/641 dated 03-06-2013. Till date, Hon'ble High Court has not allowed the construction hence foreclosure was necessary.</p> <p>3. The foreclosure issue of HRI was examined by DAE and vide their letter no 23/3(1)/2013/HRI/R&amp;D-II/891 dated 20-01-2014, the DAE had advised that the work order for this construction work was issued by the Director, HRI as per delegation of the powers, hence, it has been decided by the competent authority that issue of foreclosure can be decided at HRI level.</p> <p>4. Subsequently, after the concurrence of BWC, the foreclosure proposal was placed before the Governing Council (GC) and GC in its meeting dated 23-05-2014 approved the proposal of foreclosure. According, foreclosure OM No. HRI/GC-01/2014/897/867 dated 17th June 2014 has been issued.</p> <p>5. As per foreclosure proposal approval and in conjunction of the provisions of the contract, foreclosure has been finalised and all the advances and payments to the contract has been adjusted accordingly in the financial year 2014-15. Since, the matter is still subjudice, the amount spent so far is shown as closing work in progress and has not been capitalized so far.</p>
2.	During the year an amount of Rs.77,74,128/- has been utilized under "Infrastructure Housing" for construction of Hostel Building which has not been completed and hence the same has not been capitalized	<p>Since the Foreclosure was initiated by the Institute in 2014-15, there were pending bills of M/s Kharaujha Builders towards work done on Hostel and the Escalation Bill totaling Rs.42,57,531/-. Also there was bill for Rs.35,16,697/- towards cost of Building Materials (Tiles etc.) taken from M/s Kharaujha. All these bills will be capitalized only after the matter is</p>

		settled by Courts and the Building Materials used.
3.	<p>Amount recoverable against completed projects shown as claims recoverable and Advance for Journals are outstanding since long. Institute should take necessary steps to recover or write off the following amounts:</p> <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. DST-SFT Manoj Kumar Since 2007 Rs.33,961.00</p> <p>D. NBHM Fellowships Since 2009 Rs.1,85,867.00</p> <p>E. HNB Garhwal University Since 2010 Rs.40,000.00</p> <p>F. Ramanujan Maths Society (DST) Since 2012 Rs.8,750.00</p> <p>G. INO Conference Recoverable Since 2012 Rs.7,40,924.00</p>	<p>The Institute has written to NBHM for its realisation and is also following it up with DST for recovery of these amounts. For HNB Garhwal University the Institute has to receive utilisation certificate for adjustment of the advance against expenses. Regarding INO conference, we have already written several letters to TIFR, Mumbai for its realisation. The Institute is still following it up regularly. In case there is no response the Institute will initiate necessary steps for writing off these amounts after taking concurrence of Governing Council.</p>
4.	<p>Interest Income on Fixed Deposit of Infosys Foundation (Rs.25,00,000) is received and utilized for granting of Foreign travel support to students, as such the Interest Income is not treated as Income of the Institute though TDS is deducted and claimed.</p>	<p>It was a decision of the Institute to keep the Infosys Foundation Fund of Rs.25,00,000/- in bank fixed deposit account and the interest earned on deposit will be treated for support to students and PDFs for their foreign trip, accordingly, the Institute treats the Infosys Fund money as a corpus fund and the interest earned is not treated as an income but goes to fund the foreign travel visit @40,000/- per student/PDF. As far as the TDS is concerned we have received the certificate from bank and will claim it as a refund in our IT return.</p>
5.	<p>During the year no interest on Security deposit with UPSEB was received.</p>	<p>We have taken up this matter with UPSEB, they had some difference in their security deposit amount as shown in our Balance Sheet, the discrepancy is being sorted out and the difference interest too will be received shortly.</p>
6.	<p>Physical verification of Fixed Assets is being carried out by the Institute. The quantitative &amp; value reconciliation are being done with fixed assets register, as such we are unable to comment whether financial records are in agreement with physically verified fixed assets.</p>	<p>Asset Register having matching details of balance sheet figures (now audited) has been prepared. The process of Annual Verification of Assets is in progress. The Verification of Assets acquired through Plan Funds is already complete and no discrepancy has been noticed so far.</p>
7.	<p>Balance of EMD, Security Deposits, Sundry Creditor, Loan &amp; Advances and Claims Recoverable etc. are subject to confirmation, reconciliation and consequential adjustments thereof.</p>	<p>The Institute has already written letters to parties towards confirmation of their EMDs, Security Deposits, Sundry Creditor, Loan &amp; Advances and Claims Recoverable etc. There has been no dispute to any outstanding claim so far.</p>
8.	<p>Previous Year's figures have been regrouped or rearranged wherever necessary.</p>	<p>This is a standard accounting procedure being followed every year.</p>

Sd./-  
(Amit Roy)  
**IA&AO**

Sd./-  
(Raaj Gulati)  
**Accounts Officer**

Sd./-  
(Ravindra Singh)  
**Registrar**

Sd./-  
(J.K.Bhattacharjee)  
**Director**