



NIPER Mohali

Annual Work Plan and Budget for the Year 2016-17

Institution	Board of Governors / Steering Committee Approval Date and Proceedings No. & Date	DoP- NIPER Joint Technical Committee Approval Date and Proceedings No. & Date
NIPER/ Any Specialised Centre: NCRBD/ Medical Devices	Approved By the Director in the absence of BOG	Approved By the Joint Technical Committee in its meeting dated 09-03-2016

Submitted for the appraisal of Project Approval Board

INDEX

S.No.	Topic	Page no.
I	Executive Summary of 2016-17 for NIPER	6-13
II	NIPER Fact sheet: Birds eye view / performance Indicators of NIPER (to be decided by each NIPER)	14-15
III	Planning Process followed	15
IV	Previous Year Performance	15-23
IVa	Detailed Performance of NIPER during previous year 2015-16-Non-Financial	
1	Mandate and Vision and research leadership (not more than one page)	15-16
2	Historical Background (not more than one page)	17-18
3	Achievements till date: year wise	18-23
4	Organisational / Management Structure and Issues	24-29
5	Leadership and Manpower	29
i	Leadership details- Chairperson, Director, Dean, Registrar & others recruitment	29
ii	Manpower-Academic and Non-Academic staff-Sanction/In-position/Vacancy	29-32
iii	Issues in each of the above items	
6	Act and Statute	32-39
i	Status of Implementation of Act and Statute and issues	
ii	Pending statute, rules, regulations, ordinance to be formulated and issues	
7	Learning Environment/ Academics	39
A	Students	39-40
i	Degrees offered and Subjects offered, curriculum and regular revision, duration, credits, assessment system	39
ii	Completion and Transition rates: Students pass out year wise against capacity and admission at UG,PG, Ph.D, PDF	41
iii	Teacher-Student ratio	41
iv	Student Satisfaction surveys and Employers perceptions	42
v	Employability/ Placements	43
vi	Ranking by Subject	43-44
vii	Issues in each of the above items	44
B	Teachers	44
i	Teaching faculty sanctioned, working and vacancies- category wise	44
ii	Teachers capacity building programmes- workshops/ conferences/ seminars –inhouse and visited outside	
iii	Recognition to Faculty	44

iv	Peer review system	45
v	Issues in each of the above items and measures proposed to improve performance	
C	Equity	
i	NIPER rating on Equity-Inclusiveness & Diversity –Faculty, Students, Staff and activities	
ii	Issues in each of the above items and measures proposed to improve performance	45-58
D	Measures to improve quality of Education and Research/ Innovation Ecosystem	
8	Research	
i	Research Publications/ Institution and per Faculty and High Impact factor (IF > 3)	
ii	Citations – Institutional and per Faculty	
iii	Patents (Filed/Granted – Foreign/Indian)	59-62
iv	Awards / Honours (Institution / Faculty / Students)	
v	Competitive Research Grants	
vi	Research Student Completions (Ph.D thesis submissions)	
vii	Eminent Alumni	63-66
viii	Issues in each of the above items and measures proposed to improve performance	66
9	Land and Civil Works and Major Equipment	67
i	Land availability issues/challenges and alternatives	67-68
ii	Land development	
iii	Civil Work progress	69-70
iv	Action plan with timelines for developing Infrastructure with responsible officer/DoP	71-73
v	Equipment	74
vi	Issues in each of the above items	
10	Infrastructure: Central facilities/ Centres etc.	75-81
11	Issues in each of the above items	81
12	Academia-Inter Ministerial convergence with CSIR/DST/DBT/ICMR/ICAR and other Government Institutions	
13	Academia-Industry partnership	
i	Academia-Industry partnership- Problem specific	81
ii	Capacity utilization of Common facilities	
iii	Consultancy projects/Knowledge Process Outsourcing (KPO)/Contract Research Organisation (CRO)/ Contract Research & Manufacturing	83-90

	Services(CRAM)/ IPRs etc.	
iv	Entrepreneurship / Incubators	90-92
v	Issues in each of the above items and measures proposed to improve performance	
14	Innovation / knowledge transfer	
i	Patents and Commercialisation	
ii	Research income earned from industry	
iii	Issues in each of the above items and measures proposed to improve performance	
15	Collaboration	92
i	Collaboration With National and International Institutions	
ii	Issues in each of the above items and measures proposed to improve performance	
16	Impact of NIPER& Issues	92-93
17	Institutional Leadership	92
i	Institutional Recognition	
ii	Collaboration/partnership with International Institutions	
iii	Issues in each of the above items and measures proposed to improve performance	
IVb	Previous Year Performance: Financial	94
A	Details of EFC Approvals if any	
B	Detailed Performance of NIPER during previous year 2015-16-Financial	94-103
i	Recurring Expenditure- Plan/ Non-Plan	
ii	Non-recurring Expenditure Plan/ Non-Plan	
V	Plan for the current financial year	105-115
Va	Plan and financial requirements for the current year towards all interventions specified under approved EFC/ NIPER Act and Statute	
Vb	Spill over budget. (the balance of the approved activities proposed to be carried over to the current year from the previous year)	
Vc	NIPER corpus contribution	
VI	Action taken on CAG/ Audit/Parliamentary Standing/ Consultative Committee reports	116-117
VII	Progress of Commitments of last year & Commitments of current year	
Academic tables (Illustrative)		
1	Number of Students enrolled, passed out and not passed out since the beginning of Institute for each Degree under each Department	119
2	Status of Faculty Department- Sanctioned, In position and vacancy and	

	remarks	
3	Status of outsourced faculty/ personnel	
4	Training Programmes / Workshops / Conferences organized in house and participated outside	
5	Others	
Finance tables (Illustrative)		
1	Expenditure (cumulative) on civil works	
2	Expenditure (cumulative) on management	
3	Investment in Endowment fund	
4	Investment through Other Government Agencies-CSIR/DBT/DST/ICMR	
5	Investment through Consultancy	
6	Financial position (as per audit report)	
Annexure-1	Item no. IV(9)(4)	120-177
Annexure-2	Banks Details	178-179
Annexure-3	Total Revenue	180-183
Annexure-4	Detail Calculations for Non plan BE 2016-17, as mentioned in Executive Summary and at pages 109-114)	184-199
Annexure-5	SFC approved Schemes with Budget	200-209
Annexure 6	Constitution of Finance Committee	210
Annexure 7	Composititonof BOG, Senate & other Committees	211-215
Annexure 8	Powers, Duties &Functions of Director, Dean &Registrar	216-219
Annexure 9	Minutes of SFC Meeting held on 25-08-2015	220-224
Annexure 10	Pension Liability valuation by Actuary	225-232
Annexure 11	List of meetings of APDC held till date	233
Annexure 12	Bank Reconciliation as on 29-02-2016	234-237

Executive Summary

S. No	Expenditure head	Outlay Proposed 2016-17 by NIPER									Outlay Recommended by Technical Committee						PAB Approval 2016-17								
		Spill over		Fresh			Total			Spill over		Fresh			Total			Spill over		Fresh			Total		
		Phy	Fin	Unit Cost	Phy	Rs. (cr.)	Unit Cost	Phy	Rs. (cr.)	Phy	Fin	Unit Cost	Phy	Fin	Unit Cost	Phy	Fin	Phy.	Fin	Unit Cost	Phy	Fin	Unit Cost	Phy	Fin
Non-Plan Recurring																									
1	Salary/ remuneration* (Refer Page184-199 for details of provisions)																								
	Faculty					16.09		31	16.09																
	Technical Staff					13.77		83	13.77																
	Support Staff					7.07		45	7.07																
2	Scholarship/ Stipend**																								
	MS					8.69		620	8.69																
	MBA					.05		12	.05																
	PhD					2.93		66	2.93																
3	Academic activities	-	-	-	-	6.19	-		6.19																
4	Office expenses																								
	Electricity					3.59		12	3.59																

Plan Fund Requirement for next 3 years Period (2016-17, 2017-18, 2018-19) as per SFC Approval

Part I (Teaching Activities): (Refer Page 200-209)

Resources required										Fig In Rs in Crore			
S No.	Scheme Title	Spill Over from 2015-16	2016-17			2017-18			2018-19			G.Total	Total SFC I
			Capital	Recurring	Total	Capital	Recurring	Total	Capital	Recurring	Total		
A1	Students" fellowships, stipend	-	0	7.94	7.94	0	7.94	7.94	0	-*	-*	15.88	15.88
A2	Students research contingency including lab consumables	-	0	5.41	5.41	0	5.41	5.41	0	-*	-*	10.82	10.82
A3	Upgradation of Central Animal Facility	-	1.00	0.50	1.50	1.50	2.50	4.00	0	0.50	.50	6.00	6.00
A4	Library	1.52	0	.48	.48	1.00	3.00	4.00	0	4.00	4.00	10.00	10.00
A5	Modernization of Pharmaceutical Analysis facilities	-	0.25	0.25	.50	0.25	0.25	.50	0.75	0.25	1.00	2.00	2.00
A6	Center for Pharmaceutical Nanotechnology	-	0.40	0.10	.50	0.25	0.25	.50	0.75	0.25	1.00	2.00	2.00

A7	Academics & Examination	-	0.40	0.10	.50	0.05	0.20	.25	0.05	0.20	.25	1.00	1.00
A8	Joint Entrance Examination	-	0.40	0.10	.50	0.05	0.20	.25	0.05	0.20	.25	1.00	1.00
A9	Improvement, upgradation and extension of administrative support facilities	1.00	1.75	0.25	2.00	0.75	0.25	1.00	0.75	0.25	1.00	5.00	5.00
A10	Upgradation/ replacement/ repair of student research facilities	.44	4.00	.56	4.56	6.00	1.50	7.50	6.00	1.50	7.50	20.00	20.00
A11	R&D Programs on Biologicals and New Chemical Entities	1.00	0	1.32	1.32	0.10	5.46	5.56	0	4.56	4.56	12.44	12.44
A12	Linkages/Collaboration with International Institutions of Excellence	-	0	0.50	.50	0	0.50	.50	0	1.00	1.00	2.00	2.00
A13	Incentive scheme for Pharmaceutical Industry / CROs	-	0.08	0.02	.10	0.25	0.15	.40	0	0.30	.30	0.80	0.80
A14	High Performance	2.36	4.64	0.50	5.14	3.50	2.00	5.50	1.50	0.50	2.00	15.00	15.00

	Computer Centre (including upgradation of Campus Wide Computing Facilities)												
A15	Contingency		0.50	0.71	1.21	1.00	1.00	2.00	0.9	1.08	1.98	5.19	5.19
	SUB-TOTAL	6.32	13.42	18.74	32.16	14.70	30.61	47.57	11.75	14.59	26.34	109.13	109.13
	TOTAL	38.48				45.31			25.34				
	GRAND-TOTAL (A)	109.13											

Part II : Infrastructural Activities: (Refer Page 200-209)

S No.	Scheme Title	Spill Over from 2015-16	2016-17			2017-18			2018-19				Fig In Rs in Crore
			Capital	Recurring	Total	Capital	Recurring	Total	Capital	Recurring	Total	G Total	
B1	Development and upgradation of Central Biological Testing Laboratory	-	1.75	0.25	2.00	1.75	0.25	2.00	2.75	0.25	3.00	7.00	7.00
B2	Upgradation of Central Instrument Laboratory	-	3.00	0.50	3.50	3.50	0.50	4.00	4.00	0.50	4.50	12.00	12.00
B3	Engineering services, creation of civil Infrastructure	3.07	6.93	0	6.93	15.00	0	15.00	3.45	0	3.45	28.45	28.45

B4	Engineering Services- Requirements for Electrical, Mechanical and Telecommunication	.40 -	1.60	0	1.60	3.00	0	3.00	3.00	0	3.00	8.00	8.00
B5	R&D Centres of Excellence on sustainable ways of drug discovery and development	-	15.00	0	15.00	33.70	0	33.70	16.29	0	16.29	64.99	64.99
B6	NIPER Pharma Incubator	-	2.00	0.50	2.50	4.00	1.50	5.50	3.10	1.50	4.60	12.60	12.60
B7	Contingency	-	0.10	0.10	.20	4.00	0.8	4.80	1.61	0.675	2.285	7.285	7.285
	Total	3.47	30.38	1.350	31.73	64.95	3.05	68.000	34.20	2.925	37.125	140.325	140.325
		35.200				68.000			37.125				
	TOTAL (B)	140.325											

Total (A+B)= Rs109.13Cr+ Rs140.325Cr= Rs 249.455Cr*

*Standing Finance Committee had approved **Rs 249.455Cr** in its meeting held on 25.08.2015 (**Minutes of Meeting are attached herewith as annexure 9 , Page 217-221**) . However NIPER Mohali requires additional amount of **Rs14.13 Cr ,Rs 8.72 Cr** on account of student Stipend, as Insitute needs funds for Students Stipend @ 8.20 Cr per annum for 3 years where as SFC approved Stipend @ 7.94 Cr per Annum for 2 years, so there is diff. of Rs 8.72Cr $[(8.20-7.94)*2+8.20=8.72 \text{ Cr}]$ on this account, and **Rs 5.41 cr** on account of Lab consumables, as SFC had made a provision for lab consumables@ 5.41 cr per annum for 2 years for where as Insitute requires it for 3 years hence there is additional requirement of 5.41 Cr on this account.

II.NIPER Fact sheet: Birds eye view / performance Indicators of NIPER.

The following parameters have been proposed by the Institute as performance indicators. Approval of the same by the competent authority is pending.

Scheme	Activity	Weightage
Human Resource Development	No. of disciplines offered	1.0
	No. of Master's students admitted	0.5
	No. of Ph.D. candidates admitted	0.3
	No. of students placed	0.2
	Faculty-student ratio	0.2
	Awards won by students	0.5
	Presentations in national and international conferences by students	0.3
	Sub-total	3.0
Research and Development activities	No. of publications in peer-reviewed journals	1.0
	Cumulative impact factor of publications	0.6
	Citation index	0.4
	No. of extramural projects	0.5
	No. of patents filed	0.3
	No. of patents granted	0.05
	No. of patents licensed out	0.05
	No. of monographs contributed to pharmacopeia/formularies	0.1
	Sub-Total	3.0
International linkages	No. of foreign students/personnel trained	0.3
	No. of students trained abroad	0.4
	No. of joint publications with laboratories abroad	0.1
	No. of international conferences organized	0.2
	Sub-Total	1.0
Support to industry and societal aspects	Consultancy activities offered	0.4
	Patents filed jointly with industry	0.1
	Training to MSME personnel	0.5
	Support facility/services offered to industry	0.5
	Interaction with tertiary care hospitals	0.3
	No. of internships offered	0.2
	Sub-total	2.0
Administration/	No. of hostel rooms available for students	0.3

Infrastructure	Laboratory space available for general practicals	0.2
	Laboratory space available for specialized research activities	0.2
	Networking of academic and office areas and halls of residence	0.15
	Employee-student ratio	0.05
	Student/Employee welfare activities	0.1
	Sub-total	1.0
Total		10.0

III. Planning process followed in formulating AWP&B:

AWP&B is formulated after receiving inputs from different Departments of the Institute, viz. Academic, Finance, Establishment, Engineering, etc. Meetings have been held by the Officiating Director with faculty members, both in smaller groups and as a whole, to consolidate the academic and research activities. The report of the Academic Planning and Development Committee, a statutory committee of the Institute, on research and other activities of the Institute during 2007-2012, was given significant importance.

Formal and informal meetings were held with the domestic pharmaceutical industry through the Small and Medium Pharmaceutical Industry Centre (SMPIC) forum to understand and consider the needs of the industrial partners.

In addition, a third party evaluation of NIPER, S.A.S. Nagar's activities during the period 2007-2012 was carried out. The inputs of this evaluation have been kept in mind while formulate the activities.

IV. Previous Year Performance:

1. Mandate:

- to nurture and promote quality and excellence in pharmaceutical sciences and research
- to concentrate on courses leading to master's degree, doctoral and post-doctoral degrees and research in pharmaceutical sciences
- to hold examinations and grant degrees
- to confer honorary awards or other distinctions
- to cooperate with educational and other institutions by exchange of faculty members and scholars
- to conduct courses for teachers, pharmaceutical technologists, community and hospital pharmacists and other professionals
- to collect and maintain world literature on pharmaceutical and related sciences and technology
- to create a central faculty of pharmaceutical instrumentation and analysis
- to have a centre to experiment and innovate, and to train teachers and other workers in the art or science of pharmaceutical teaching

- to develop a world centre for creation of new knowledge and transmission of existing information in pharmaceutical areas
- to develop a multidisciplinary approach in carrying out research and training of pharmaceutical manpower so that larger interests of the profession, academia and pharmaceutical industry are better served and a pharmaceutical work culture is evolved which is in tune with the changing world trends and patterns of pharmaceutical education and research
- to organise national and international symposia, seminars or conferences in selected areas of pharmaceutical education
- to arrange courses catering to the special needs of the developing world
- to act as a nucleus for interaction between academic and industry ... by undertaking sponsored and funded research as well as consultancy projects
- to pay due attention to the studies of the distribution and usage of drugs by the rural masses

a) NIPER Vision:

To become a globally recognized brand in the areas of education and research in pharmaceutical sciences for the benefit of people of India and growth of the pharmaceutical industry

b) Institute research leadership:

1. Neglected diseases

- Tuberculosis
- Leishmaniasis (kala azar)
- Malaria.

New molecules are being synthesized and their mechanisms of action are being worked out.

2. Other diseases

Metabolic pathways in diseases like inflammation, infection, cancer, diabetes, neurodegeneration are being worked out.

3. Drug development and formulation

- Improvement of oral bioavailability
- Synergistic anticancer efficacy
- Reduced toxicity of drugs
- Development of new formulations
- Development of methods/protocols for drug analysis and regulatory compliance

4. Other areas

- Chemo-enzymatic synthesis of drugs
- Monographs on herbals are being developed.
- Study of the effect of RNA aptamers on stabilization of misfolded proteins
- Mass production of recombinant human PON1 enzyme with enhanced activity towards desirable substrate(s) and its long-term stability
- Assessment of an appropriate and reliable method to diagnose neuropathic pain

2. Historical Background

National Institute of Pharmaceutical Education and Research (NIPER), an autonomous body set up under the aegis of Department of Pharmaceuticals, Ministry of Chemicals and Fertilizers, Government of India is the first national level institute in pharmaceutical sciences with a proclaimed objective of becoming a centre of excellence for advanced studies and research in pharmaceutical sciences. In 1998, the Government of India declared NIPER as an "Institute of National Importance" through an Act of Parliament. The Institute has been conceptualized, planned and set up to provide leadership in pharmaceutical sciences and related areas not only within the country, but also to the countries in South East Asia, South Asia and Africa. NIPER is only one of its kind in its domain and is highly valued for its outcomes – namely well trained and focussed human resources (students / researchers); publications of high impact and novel processes / outputs of industrial relevance in its chosen areas of working.

It was to honour the country's expectations that NIPER's founding fathers gave this new institution a *vision* of far reaching importance and reach, articulated as under:

"To become a globally recognized brand in the areas of education and research in pharmaceutical sciences for the benefit of people of India and other countries and the growth of the pharmaceutical industry".

At global level, India's pharmaceutical sector is one of the most rapidly growing sectors of industrial economy. Its market size of US \$ 13.60 billion places it at 3rd rank in terms of volume and 14th in terms of value. In terms of sheer size it is again massive with more than 250 large research based pharmaceutical companies which include both public and the private sectors. The number of licensed manufactures as per 2007 survey of the Central Drug Control Standards Organization (CDSCO) is also around 10500. This sector employs a total of about 5 lakh highly qualified and skilled persons.

Though Indian pharmaceutical sector is massive, the culture of creative research ambience is absent. Our national R&D spending across all S&T domains, in the last few years, has been low, at about 0.90% of our GDP. Therefore, if we have to come up to the visionary dream of Department of Pharmaceuticals, a massive effort has to be mounted in terms of providing trained manpower and adequate financial resources.

Historical Milestones:

- 1991 Registered as a Society
- 1994 First Director and Core Faculty joined
- 1996 Initiation of research activities
- 1998 Institute of National Importance: NIPER Act
- 1998 Admission of first Batch of Masters' and Ph.D. students
- 1999 Graduation of 1st Batch of Masters' students
- 2000 Dedication of NIPER to the Nation
- 2001 First Convocation held
- 2002 Graduation of 1st Batch of Ph.D. students
- 2003 Statutes proclaimed by the Board of Governors with the prior approval of the Visitor
Second Convocation held: HE Dr A.P.J. Abdul Kalam, President of India and Visitor as the Chief Guest
- 2004 Establishment of National Bioavailability Centre
- 2004 'A Decade of NIPER' completed

- 2005 Ordinance regulating the degrees of Masters' and Doctor of Philosophy
Third Convocation held
- 2006 Visit of Prince Charles
- 2007 Amendment of NIPER Act to establish six new NIPERs
- 2008 Fourth Convocation held
- 2009 Establishment of SMPIC
- 2010 Amendment of Ordinance regulating the courses of study and procedures thereof
Establishment of Patent Facilitation Cell
- 2011 Fifth Convocation held
- 2012 Sixth Convocation held
- 2013 Seventh Convocation held
- 2014 Amendment of Ordinance regulating the courses of study and procedures thereof
- 2015 Reinvigorating linkage with industry: Signing of domain-specific MoUs
- 2016 Silver Jubilee Year

The first ten years has been the period of conceptualizing, planning and creating academic, research and technology development infrastructure. This period has been the period of exponential growth in terms of facilities. Several new research and technology development programmes were planned and launched. A number of new specializations, relevant to pharma industry were set-up. Recruitment of highly competent and well trained faculty also gave NIPER a head start.

3. Achievements till date – Year wise

NIPER, S.A.S. Nagar, was initially registered as a society under the Societies Act. The faculty for the institute was appointed in 1994. In 1998, Parliament enacted National Institute of Pharmaceutical Education Act, 1998. NIPER was declared as an “Institute of National Importance” under an Act of Parliament on 26th June 1998.

The activities of the Institute spill over into different years and hence it is difficult to list achievements by year. Following is a consolidated list of activities accomplished by the Institute in the past:

Academic excellence:

Since the inception of academic programme (till Feb. 12 2016), 2458 students have passed out (Masters 1783, MBA 450 & Ph.D. 225).

Publications	Highest impact factor	Patents filed	Patents granted	Patents licensed
>1,950	40	170*	37*	07**

- Includes some patents at different stages of filing and those granted to other agencies as assignees
- * Including foreign filings/approvals
- ** Including one patent which has been licensed to two US-based companies

Such a large number of research publications and patents amply speak of the focus and intellectual capabilities of the NIPER faculty and researchers. The activities of the Institute spill over into different years and hence it is difficult to list achievements by year. A large number of publications were published in high impact journals with many of them appearing in journal of impact factor more than 5.0. It is not only the publications in highly cited journals but also NIPER has enviable H-index of 68. It was through these publications that NIPER faculty reported some very important research contributions / findings as is evident below:-

- Reported N-fused imidazole class of compounds as anticancer compounds
- Reported new apolipoprotein-mimetic peptides that show specific binding to pro-inflammatory molecules and inhibit their action in human blood.
- Investigated the role of surface molecular mobility on stability of amorphous solid dispersions and developed a multi-layered barrier coated system
- Synthesized novel anti-androgens with excellent anti-prostate cancer activity
- Identified ribose 5-phosphate isomerase B as a potential target in leishmania
- Developed a novel fluorescence based screening assay for anti-mycobacterials
- Relationships established between insulin and testosterone level and the development of benign prostatic hyperplasia (BPH) in type-2 diabetic model
- Developed infection free skin graft for wound healing
- Process for synthesis of single enantiomers from corresponding racemic compounds and prochiral ketones using a range of biocatalysts established
- Established the usage of nucleic acid aptamers as novel stabilizers of protein pharmaceuticals
- Solved the mystery of fall in bioavailability of rifampicin on administration of anti-TB fixed dose combinations.

Technological achievements

It was not only the contributions towards basic or fundamental research, the faculty of NIPER, S.A.S. Nagar could also carry out some highly appreciable process and products related technological outcomes as below:

- Development of anti-snoring agent
- Development of oily injection of amoxicillin Na⁺
- Taste masking of antibacterial drugs
- Stabilization of amorphous ATV
- Taste masking of praziquantel
- Development of veterinary injectable formulation
- Formulation development of florfenicol and tilmilisin
- SEDDS of tamoxifen for breast cancer therapy
- SLN formulation for oral delivery of amphotericinB
- Engineered nanoparticles for oral insulin delivery
- Surface stabilized lopinavir nanoparticles for bioavailability enhancement
- Layersome formulation for oral delivery of anticancer drugs

- Self emulsifying drug delivery system of quercetin for bioavailability enhancement
- Universal step-wise freeze drying cycle for lyophilisation of nano drug delivery systems
- Development of a process for simultaneous saccharification and fermentation of starch to alcohol and acetic acid

It was due to the faith of the industry in NIPER's technological capabilities that during this period (2007-2012), more than 320 sponsored / consultancy projects of the value of Rs. 15 crore were taken up and successfully carried out. During this period, several licensing agreement on NIPER generated IPRs were also finalised, of which one with M/s. VAV Life Sciences, Mumbai and other a tripartite agreement involving UIC Chicago and Rush University, Chicago both of USA have given NIPER a strategic advantage.

This period also saw a quantum jump in academic output of students graduating from NIPER-S. During the period July 2007 to July 2011, a total of 711 Masters' students including 163 MBA students graduated and a total of 67 Ph.D. scholars obtained their degrees. Of these, more than 70% students of M.S.(Pharm), M.Tech.(Pharm) and M. Pharm. had their campus placements while it was 100% placement for the MBA (Pharm) students

Creation of teaching / research infrastructure

This period (2007-2012) also saw the creation of several research / academic / infrastructural facilities such as:

- Creation of Centre for Infectious diseases
- Setting up of Natural Products Field lab
- Completion of civil work on dosage form pilot facility
- Creation of pharmaceutical parasitology block
- Setting up of facility for material characterization of pharmaceuticals
- Setting up of pharmaceutical heritage centre
- Construction of a hostel each for boys and girls to accommodate 300 students
- Construction of 48 staff residence
- Construction of community centre / shopping complex / swimming pool, etc.
- Construction of Administrative building / Engineering Section
- Extension of teaching facilities
- Providing several service (AC/Electrical/Roads/Drainage/Water purification, etc.) facilities.

NIPER, S.A.S. Nagar also organized several conferences / seminars / workshops which were largely attended by participants from within India and abroad. Many of these programmes were organized for participants from developing and under developed countries, sponsored by Ministry of External Affairs and Ministry of Health and Family Welfare, Govt. of India.

The programmes (during 2007-2012) covered wide research and technology domains as under:

- 5 annual ITEC / SCAAP training programmes on behalf of Ministry of External Affairs
- 15 Capacity building programs for Ministry of Health funded by World Bank
- 4 International conferences on drug metabolism and pharmacokinetics in collaboration with Bristol-Myers Squibb
- 7 Summer / Winter Nanotechnology Schools
- 2 International conferences on Natural Products Chemistry
- 10 Training programmes for the staff of small and medium pharmaceutical industries

- Summer School for 60 participants on modelling and bioinformatics in drug design

Establishing industrial linkages

This period also saw the creation of a large number of linkages with national and international pharmaceutical companies and institutions. Notable companies/institutes with whom MoUs were signed are as follow:

1. Dow Chemical International Pvt. Ltd.
2. University Institute of Pharmaceutical Sciences (UIPS), Panjab University
3. M/s Tirupati Medicare Ltd.
4. M/s Kwaliti Pharmaceuticals Limited
5. Celeste Life Sciences Pvt. Ltd.
6. Sun Pharma
7. Wockhardt
8. Medley Pharmaceuticals Ltd.
9. Panacea Biotech
10. Rajasthan Drugs and Pharmaceuticals Ltd.

In addition, work has also been carried out with the following representative list of companies/organizations:

National		International
Panacea Biotec	Sun Pharmaceutical Industries Limited	Sapient Discovery, San Diego, USA
Alkem, Mumbai	Perrigo API India Pvt. Ltd	Sigma, Australia
Strides Arcolab	Ajanta Pharma Limited	US Pharmacopeia
RPG Life Science	Zoetis	GLU, Pakistan
Sandoz	Daewoong Pharma	Bioveta a.s., Czech Republic
Cadila Healthcare	DSM Sinochem Pharmaceuticals India Limited	University of Melbourne, Australia
Lupin	Ind-Swift Laboratories Limited	Riccardo Bonflchi, Italy
DSM Antiinfectives	Coral Drugs Pvt. Ltd.	Univ. of Tennessee, USA
USV	Kemwell Biopharma Pvt Ltd.	Hebrew University of Jerusalem, Israel
Glenmark	Integral Biosciences Pvt. Ltd.	Bristol-Mayers-Squibb, USA
Torrent Pharmaceuticals	Perrigo Lab India Pvt. Ltd.	Wockhardt Bio AG, Switzerland
Parabolic Drugs	Orchid	Rontis, France
Ranbaxy		Miller Pharmaceutical Technology Company, USA

Recognition and Awards

This period also saw many of the faculty of NIPER, S.A.S. Nagar getting recognition for the excellent work being carried out by them. Some of the notable achievements of this period were:

- Shanti Swaroop Bhatnagar Award (2003)
- National Bioscience Award (2003)
- Young Woman Bioscientist Award 2014
- JC Bose Fellowship (2009)
- Ranbaxy Research award (2003, 2005, 2008)
- OPPI Scientist award (2005, 2006, 2009, 2010, 2011, 2012)
- CRSI Medal (2006, 2008)
- IBM Faculty Award (2007)
- Shakuntala Amir Chand Prize of ICMR (2006)
- Dr. DN Prasad Memorial Oration award 2011 of ICMR
- PP Suryakumari Prize (2009)
- Professor D. Nasipuri Memorial Award (2015)
- Eminent Analyst Award, IDMA (2008)
- Eminent Mass Spectroscopist (2009)
- Innocentive Challenge Award (2006, 2008)
- Alkyl amine Young Scientist Award (2011)
- INSA Young Scientist Medal (2011)
- OPPI Young Scientist Medal (2009)
- Punjab Rattan Award (2005)
- Elected fellows of various national and international science academies
- Member, WHO Expert advisory panel on the International Pharmacopoeia and Pharmaceutical Preparations; Advisor, WHO expert committee on specifications for pharmaceutical preparations; Member Scientific Body, IPC
- The Institute has also been awarded with Thomson Reuters Innovation Award 2011 (Govt. sector). The award is based on (i) The number of basic inventions published in the previous year, (ii) The ratio of granted patents to basic inventions, (iii) The global reach of the portfolio, and (iv) The overall influence of the portfolio as determined by international citations of its research.
- Recognized as among the top 100 Indian Innovator companies and research organizations (2014) (Thomson Reuters)
- Recognized as one of the four institutes in the country with AAAA+ ranking by Career360 magazine (Outlook group) (March 2014)
- Astra Zeneca endowment fund set up (Rs. 60 lakh)
- Bristol-Myer-Squibbs has funded one student each for PhD and Masters' programme since 2008
- Eli Lilly and Merck have granted funds for carrying out research work (2007-2009)
- Chosen as one of the destinations (apart from USA and UK) by Government of Kazakhstan for award of Bolashak scholarship to its nationals to pursue research programme in pharmaceutical sciences
- Received state and national awards for efforts to promote Rajbhasha

• Informal collaboration with almost all national institutes is in place. Formal MoUs have been signed with the following international institutes for working in areas of mutual interest:

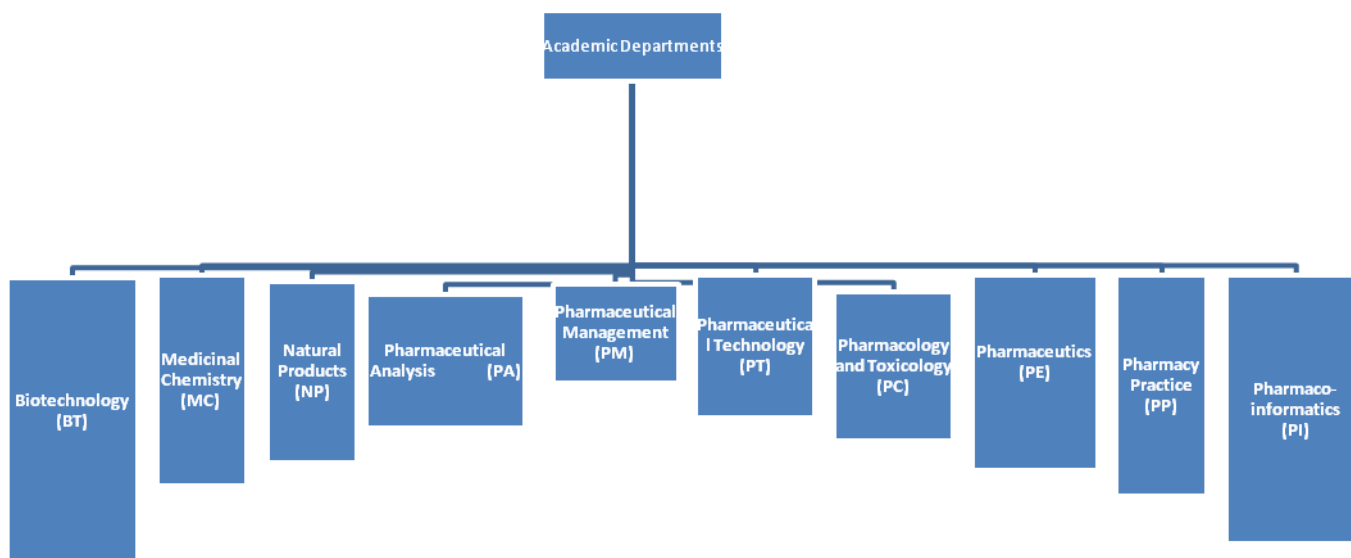
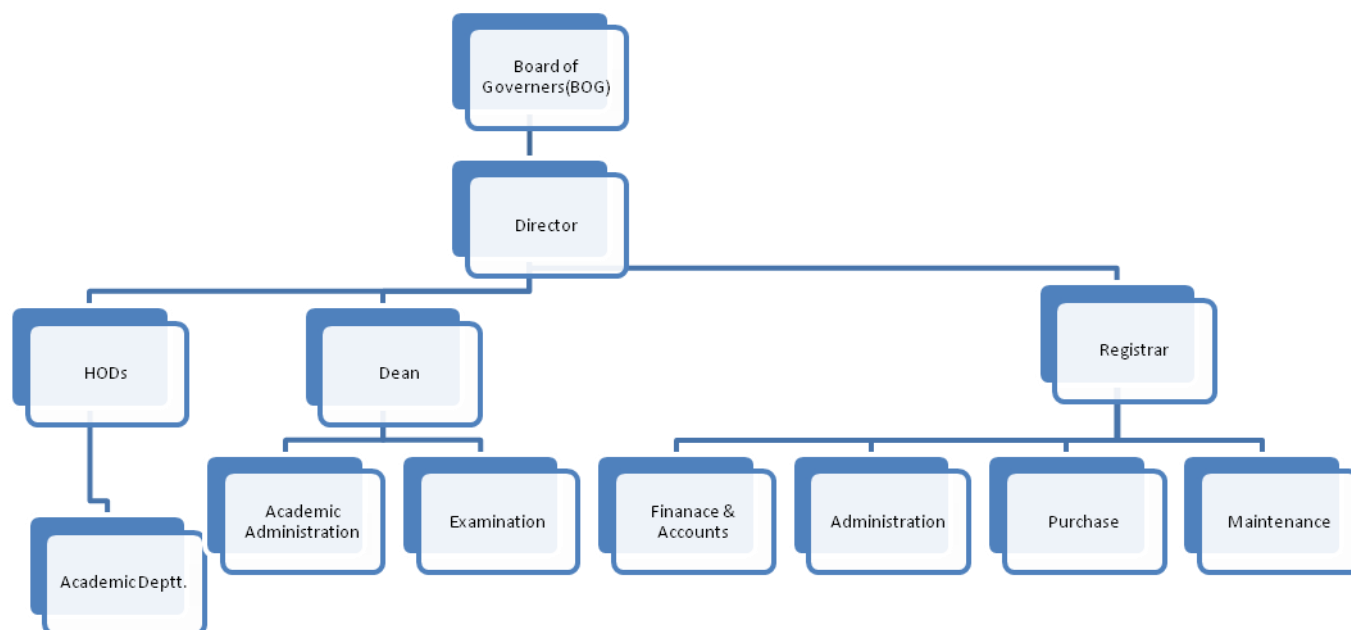
- Volgograd State Medical University
- Hertfordshire University
- Chicago College of Pharmacy

The Institute has **licensed technologies** developed by it to the pharmaceutical industry for further development and commercialization:

- (i) Two joint US patents on “Composition and Methods for Trapping and inactivating pathogenic microbes and sperms” licensed to Evo Fenn, Inc. and Iaso Biotechnology, Inc., both US-based companies.
- (ii) Marketing rights of the technology platform for “Nanocrystalline solid dispersions (NanoCrySP)” in USA and Europe have been licensed to M/s Windlass Biotech Ltd.
- (iii) Tamoxifen-SEDDS licensed to VAV Life Sciences, Mumbai for further development and commercialization.
- (iv) Process for one pot synthesis of [2,8-bis(trifluoromethyl)-4-quinolinyl-2-pyridinyl methanone, a mefloquine intermediate; licensed to Unimark Remedies Ltd., Ahmedabad.
- (v) A process for preparing S-clopidogrel; licensed to M/s Ind-Swift Lab Ltd., Patiala.
- (vi) MoU signed between NIPER, S.A.S. Nagar and IDPL Technology for zinc-dispersible tablets for management of diarrhoea in children.

4. Organisational structure

- a. Administration
- b. Departments
- c. Department wise activities and Issues
- d. Issues in each of the above items and measures proposed to improve performance



c. Department wise activities

Biotechnology (BT)

The laboratories in the department are working in the areas of host-pathogen interactions, target identification and validation in tuberculosis and kala azar, protein production and stabilization, protein misfolding disease models and production of biosimilars.

Medicinal Chemistry (MC)

The department is engaged in the following areas of research

Identification and validation of novel target sites for various therapeutic areas: Design and synthesis of new chemical entities as anticancer, antileishmanial, broad-spectrum antimalarial, antituberculosis, antihypertensive, antiinflammatory, antidiabetic, anti-viral compounds and multi-drug resistance reversal agents.

- Asymmetric Synthesis
- Combinatorial Chemistry
- Peptide Synthesis
- Eco-friendly Processes
- Computer Aided Drug Design
- Design and synthesis of anti-malarial agents
- Computational design of novel dendrimers units for anti-diabetic agent
- Computational prediction of SOM of substrates by Cytochromes
- Molecular Dynamic simulations (quantum as well as force field) to understand basics of drug action

Natural Products (NP)

The departmental research activities are concentrated in the following areas:

- Discovery of new chemical entities (NCEs) from natural products of terrestrial, microbial and marine origin in the following therapeutic areas:
- Traditional Medicine development programmes: Standardization and quality control of herbal drugs and products.
- Process technology programmes: Development of chemical process technologies for important natural products involving isolation, semisynthesis or synthesis.

Pharmaceutical Analysis (PA)

The department is involved in the diversified activities, including active involvement in industrial research projects.

The key areas of research are:

- Physico-chemical characterization of new chemical entities

- Forced degradation (stress testing) and stability kinetics studies
- Preformulation studies
- Validated analytical method development including stability-indicating assays
- Accelerated stability testing
- Impurity profiling of drug substances

Pharmaceutical Management (PM)

A recent diversified expansion of the Institute is the Department of Pharmaceutical Management which has been created with a view to provide a specialized, high quality education as preparation for professional positions in pharmaceutical business and industry. The objectives of this course are to teach pharmaceutical management to the Pharmacy graduates to become the successful managers in pharmaceutical industry by applying the fundamentals of management. The department is actively engaged in Teaching, Research and Training and Development programmes related to the following:

- To provide a specialized, high quality education as preparation for professional positions in pharmaceutical business and industry
- To improve the quality, talent and skills of individuals to help them lead their lives as successful pharmaceutical management professionals
- To explore the frontiers of knowledge from the industry through independent research, as well as in collaboration with other entities in pharmaceutical business or education having similar goals

Pharmaceutical Technology (PT)

A. Process Chemistry (PTPC)

A special feature of the Institute is the Department of Pharmaceutical Technology which has been created with a view to directly interact with industry. The department has a pilot plant associated with it for pilot-scale processing of bulk drugs and natural products. The department has build up facilities for scale up studies during development of technologies for bulk pharmaceutical chemicals and different dosage forms. The department is actively engaged and can collaborate in projects related to the following.

- Process development for enantiomerically pure drugs
- Chemical processing technology for natural products
- Process for conducting eco-friendly reactions involving phase transfer catalysts, ionic liquids as alternate solvent media
- Process for developing anti-diabetic compounds using novel technologies

B. Formulations (PTF)

- Preformulation studies of new molecular entities
- Prototype formulation development and product/process challenge studies on solid and liquid dosage forms

- Solid state characterization of pharmaceuticals
- Generation of polymorphs, pseudo-polymorphs and amorphous form; Characterization using thermal, spectroscopic, crystallographic (powder and single crystal) techniques; Solubility advantage; Thermodynamic characterization - van't Hoff plots; Effect of polymorphism on product performance; solid state transformations during pharmaceutical processing; regulatory implications
- Generation of co - crystals to improve aqueous solubility of poorly water soluble drugs
- High energy amorphous form
- Improved powder properties using particle engineering and co-processing of pharmaceuticals; Study of compression behavior; Heckel's plots; Physico - technical properties
- Reverse engineering of generic formulations
- Improvements of oral bioavailability using lipidic systems
- Intestinal permeability studies and permeation enhancement of drugs using excipients
- Stabilization of protein drugs during lyophilization

C. Biotechnology (PTBT)

The biotechnology unit of Pharmaceutical Technological Department has been set up with a view to create awareness in the field of pharmaceutical biotechnology. The main objective is to impart training to the students on the different aspects of pharmaceutical biotechnology such as

- production of high value products through high cell density fermentation
- to produce active intermediates through biocatalysis
- downstream processing of biomolecules, etc.

The unit has taken the initiative to start research activities in the field of biocatalysis to produce enantiomerically pure isomers intended to use as drugs and drug intermediates. The unit runs a full fledged M.Tech. programme in pharmaceutical biotechnology sponsored by the Department of Biotechnology (Govt. of India).

Pharmacology and Toxicology (PC)

Department of Pharmacology and Toxicology has the facilities to carry out pharmacological screening of NCEs. The department can enter into project collaborations in regulatory toxicological testing, viz., acute, sub-chronic and chronic toxicity testing. The departmental research activities are concentrated in the following areas:

- Opioid tolerance, supersensitivity and dependence mechanisms
- Role of different subtypes of angiotensin receptors in hypertension and diabetic vascular complications
- Understanding the mechanisms of diabetic complication and development of NIDDM & insulin resistance models in rodents; screening of synthetic and natural products for their antidiabetic activity
- Role of alpha adrenoceptors in benign prostatic hyperplasia
- Understanding the molecular mechanisms involved in ischaemic stroke
- Evaluation of novel neuroprotective approaches for the treatment of cerebral ischemia
- Development of animal models of cerebral ischemia
- Understanding the mechanisms of diabetic neuropathy

- Role of adenosine receptors subtypes in diabetic neuropathic pain
- Evaluation of various neuroprotective approaches in diabetic neuropathy
- Screening of NCEs for antileishmanial activity.
- Development of rat model for Alzheimer's disease and screening of NCEs on learning and memory in rats
- Production of monoclonal antibodies against Plasmodium yoelii nigeriensis antigens with the objective of characterization of protective antigens
- Molecular mechanisms of protection, cytoadherence, immune evasion and red cell invasion in malaria
- Biotherapeutics and chemotherapeutics evaluation of potential antimalarial, antitubercular, antileishmanial and antiamebic agents *in vitro* and *in vivo*
- Study of the opioids-induced bidirectional molecular signaling within the neuroimmune network with a view to develop new immunomodulators.
- Histone modifications as targets for drug discovery
- Molecular mechanism involved in toxicant and oxidative stress induced process of cell death

Pharmaceutics (PE)

The department of pharmaceutics is equipped with state of the art facilities to undertake research in drug development and delivery. The Department works to understand the role of material properties in pharmaceutical performance. More recently, the department has initiated research on nanotechnology. To strengthen our research potential, nanotechnology will be utilized to prepare effective carriers to deliver the drugs at diseases targets and effort will be taken to initiate gene delivery program in our department.

Pharmacy Practice (PP)

Beginning from the academic session 2002-2003, NIPER has introduced a new course leading to the award of M. Pharm. in Pharmacy Practice. The three core areas identified for this department are Clinical, Hospital and Community Pharmacy. In a very short span of time, the department has made significant progress and has been able to evolve on the first two areas by developing a strong interface with three major hospitals in the region. One of the missions of the department is to provide quality-teaching programs that will prepare the students for entry into all areas of professional pharmacy practice. The department intends to promote research and service, demonstrating excellence in professional practice and outreach. Currently, the emphasis is placed on principles of pharmacotherapy and practice management for the purpose of advancing quality cost-effective pharmaceutical care.

Pharmacoinformatics (PI)

Drug discovery research has become much more complex science requiring a multidisciplinary approach. Converging concepts of several disciplines such as molecular biology, chemistry, toxicology, pharmaceutical sciences and computational technology has become more than a trend in education. It has become a necessity for solving real-world problems. This course is designed to teach the new millennium drug discovery science to the pharmacy graduates to become the successful drug discovery scientist in pharmaceutical industry.

d. Issues

There is an acute need to strengthen all departments with faculty and also with rtge latest instruments. Most of the instruments were purchased in the initial years of XI plan or earlier and they have lived their life.

5. Leadership and Manpower

- i. Leadership details- Chairperson, Director, Dean, Registrar & others recruitment
- ii. Manpower-Academic and Non-Academic staff-Sanction/In-position/Vacancy
- iii. Issues in each of the above items and measures proposed to improve performance

i. Leadership Details

Sl. No.	Designation	Name	Date of Joining of Institute	Date of holding Leadership	Remarks
1.	Chairperson	Under process of nomination			
2.	Director	Dr. K K Bhutani	01-09-1994	01-01-2010	Officiating
3.	Dean	Dr. Asit K. Chakraborti	09-11-1994	03-07-2014	
4.	Registrar	Wing Cdr. PJP Singh Waraich (Retd.)	04-07-2011	04-07-2011	

ii. Manpower – Academic & Non Academic

SANCTIONED / FILLED / VACANT POSITION					
Sl.No.	Name of the Post	Sanctioned	Filled	Vacant	Remarks
		Total Santioned	Total Filled	Total Vacant	
1	Director	1	0	1	
2	Professor	14	03	11	Three (03) Asstt. Prof. & Ten (10) Associate Prof. have also been promoted as Professor through CAS.
3	Associate Professor	18	10	08	Nine (09) have become Associate Professor through CAS.
4	Assistant Professor	29	18	11	As on date six (06) faculty members are continuing as Assistant Professor.
5	Pr. Scientific Officer	1	0	1	

6	Sr. Scientific Officer	1	0	1	
7	Head Computer Center	1	1	0	
8	Chief Maintenance Engineer	1	0	1	
9	System Engineer	1	0	1	
10	Tech.Sup.Gr.I/Scientist Gr.I	34	6	28	
11	Garden Supervisor	1	1	0	
12	Registrar	1	1	0	
13	Pr.Lib.& Infor.Officer	1	0	1	
14	Dy.Registrar (F&A)	1	1	0	
15	Dy.Registrar (A&P)	1	1	0	
16	Dy.Registrar (Exam)	1	0	1	
17	Asstt.Registrar (Exam)	1	0	1	
18	Asstt.Registrar (Estt.)	1	0	1	
19	Finance & Accounts Officer	1	1	0	
20	Public Relation Officer	1	0	1	
21	Stores & Purchase Officer	1	1	0	
22	Museum Curator	1	1	0	
23	Resident Doctors	2	0	2	
24	Estates-cum-Security Officer	1	0	1	
	Sub Total	116	45	71	
	Group B				
25	Tech.Sup.Gr.II/Scientist Gr.II	26	15	11	

26	Security Supervisor	1	1	0	
27	Programmer	1	1	0	
28	Maint Engg/ Asstt Engg	3	2	1	
29	Secretary to Director	1	1	0	
30	Section Officer (Admn.)	1	0	1	
31	Section Officer (Exam)	1	0	1	
32	Section Officer (S&P)	1	1	0	
33	Section Officer (Accounts)	1	1	0	
34	Stenographer Grade - B	3	2	1	
35	Technical Assistant	36	29	7	
36	Jr. Engineer	2	1	1	
37	Data Processing Asstt.	3	3	0	
38	Data Entry Operator	4	3	1	
39	Stenographer Grade-C	9	7	2	
40	Store Keeper (Chemical+Engg.)	4	3	1	
41	Asstt.Gr.I (Admn, Accts, S&P)	3	3	0	
42	Asstt.Gr.II (Admn., Accts, S&P, Exam)	5	2	3	
43	Guest House Incharge	1	1	0	
44	Library & Info.Asstt.	2	2	0	
45	Junior Hindi Translator	1	1	0	
46	Paramedical Staff	4	0	4	
	Sub Total	113	79	34	
	Group C				

47	Junior Technical Assistant	32	24	8	
48	Suboverseer	1	1	0	
49	Stenographer Grade-D	4	3	1	
51	RTO	3	2	1	
51	Asstt.Gr.III (Admn., S&P, Exam)	9	4	5	
52	Artist/DIP Operator	1	0	1	
53	Hindi Typist	1	1	0	
54	Driver	5	0	5	
	Subtotal	56	35	21	
Total		285	159	126	This also includes 06* post of Medical Staff sanctioned by the BoG

6. Implementation of Act and Statute: NIPER Checklist

Act	Statute		
12		Authorities	
		List Authorities- Chairperson/Director/Dean/Registrar with dates of joining	BoG is under constitution since 21.06.2014. The Chairperson of the BoG is under process of nomination. Offtg. Director wef 01-01-2010 Dean wef 03.07.2014 Registrar wef 04.07.2011
		List various Committees, operational status and effectiveness	The NIPER, Mohali BoG, Senate, APDC & LSBWC are under process of constitution. The constitution of Finance Committee is as per Annexure '6'. All committees have worked effectively as per their respective mandates. The Composition & Functions of these committees are as per Annexure '7').
		Clarity of Job Charts for every position	Act and Statutes contains powers, duties and responsibilities of members and Chairpersons of Statutory Committees. The same are enclosed as Annexure '8'.
4		Board of Governors	BoG is under constitution since 21.06.2014
		Composition of Board of Governors (as per 2007 amendment) and Casual vacancies if any category wise	Compositon of BoG is defined in the NIPER Act 1998 and Statutes of the Institute (Reference Annexure '7' pg 208-212)
		Members who are absent consecutively for 3 times	Not Applicable

		Last date of constitution of BoG	22.06.2011
		BoG number and dates of meetings since inception with venue; & Dates for the current year	64 BoG meetings have been held so far. During current year no BoG meeting has been held.
		No.of BoG Meetings where quorum is not complied.	None.
		Fellowships, scholarships, prizes and medals instituted and awarded	The Institute awards AstraZeneca oration award and Dr. Parvinder Singh memorial award for which separate fund is created funded from donations.
		No.of statutes and ordinances considered, framed, altered, modified and rescinded; assented/withheld/remitted by the visitor and placed before the House of Parliament	Act and Statutes were amended once each. Ordinances have been amended thrice.
		No.of committees constituted with dates and operational	The BoG of NIPER Mohali has been constituted four times so far for the following periods: 01.09.2000 – 30.08.2003. 17.09.2003 – 16.09.2006. 07.12.2006 – 06.12.2009. 22.06.2011 – 21.06.2014.
		Annual Report and accounts: Dates of consideration since inception (S.16)	Annual Reports& Accounts have been regularly published since 1991-92.
	3.1	Sample BoG Agenda items of last meeting	The 64th BoG meeting was held on 21.06.2014.
		BoG Notice period and Agenda circulation period	Notice Period of 3 weeks is given for BoG & Agenda Circulation Period.
		Maintenance of Minute book	Yes. Minute Book is being maintained at Registrar Office.
13		Senate	Senate is under reconstitution since 05.09.2014 primarily due to absence of BoG nominee as BoG is also under constitution.
		Current composition and vacancies if any-category wise	As explained above.
		Date of constitution	Under Process.
		Number of Senate Meetings since inception year wise and current year dates	23 Senates meetings have been held hitherto. Statutes define the criteria for holding the meetings (Please refer Annexure '7' pg 208-212)
		Standards set for instruction, education and examination	As per Ordinances.
	3.2	No.of Advisory / Expert committees constituted	-
		Periodical review: No.of Departments/centres undertaken & action taken	-
		Periodical review: Library and Information Service/ central Instrumentation centre/Other Non-Teaching deptt/ centre undertaken & action taken	-

		Maintenance of Minutes Book (Yes/No) and is it available for inspection by the Members	Minute Book is being maintained at Registrar Office, minutes book is available for inspection by the members and register in this regard is also maintained by Registrar office.
	3.3	Academic Planning and Development Committee	APDC is under reconstitution since 05.09.2014 primarily due to BoG nominee as BoG is also under constitution.
		Current composition and vacancies if any-category wise	As explained above.
		Date of constitution	Under Process.
		Number of Meetings since inception year wise and current year dates	Please see Annexure 11 Pg230.
	3.4	Finance committee	FC has been constituted vide office order no. NIPER/RGO/ Committees /2015/1057 Dated 09-10-2015 in pursuance of DoP, MoC&F letter no. F No. 50020/ 16 /2010-NIPER Dated 30.04.2015.
		Current composition and vacancies if any-category wise	Copy of the same is enclosed as Annexure '6'.
		Date of constitution	09.10.2015
		Number of Meetings since inception year wise and current year dates	32 Finance Committee meetings have been held so far. Statutes define the criteria for holding the meetings (Please refer Annexure '7').
	3.5	Laboratory Services, Building and Works Committee	LSBWC is under reconstitution since 05.09.2014 primarily due to BoG nominee as BoG is also under constitution.
		Current composition and vacancies if any-category wise	As explained above.
		Date of constitution	Under Process.
		Number of Meetings since inception year wise and current year dates	17 LSBWC meeting have been held so far. Statutes define the criteria for holding the meetings (Please refer Annexure '7').
	3.6	Selection Committee	
		Current composition and vacancies if any-category wise	Vacancy position given alongwith Sanctioned strength from page no. 29 to 32 of this document.
		Date of constitution	As and when selections are done.
		Number of Meetings since inception year wise and current year dates	No such meeting has been held during the current year.
	6.2	Contract Review Committee	Notification regarding abolition of contract system has been issued. The committee for regularization has been constituted and final modalities are being worked out.
		Current composition and vacancies if any-category wise	As explained above.

		Date of constitution	As explained above.
		Number of Meetings since inception year wise and current year dates	No such meeting is required to be held now.
11		Visitor	
		Dates of visit by visitor any time	29.09.2003
		Any enquiry / review of progress by visitor with follow up action	-
15		Chairperson	Under Process of Nomination
		No.of meetings held by chairperson with dates year wise and current year schedule	None
16		Director, Dean and Registrar and Other Authorities	
		Current Director-First tenure / Renewed Tenure	Officiating since 01-01-2010.
		Annual report and accounts: Dates of submission to Board	As per Annexure '8'. (Pg 213-216
		Job chart of Dean	As per Annexure '8'.
		Job chart of Registrar	As per Annexure '8'.
		Powers and duties/ Job chart of other authorities	As per Annexure '8'.
6		Transition from Society to Institute	Registered as a Society under the Societies Registration Act, 1860 in February' 1991. Declared as an Institute of National Importance by the NIPER Act, 1998.
		Number of Cases / litigations pending viz., tenure, remuneration, pension, leave, gratuity, PF etc.	16 cases pertaining to tenure, remunerations and retiral benefits, etc. are pending as on date.
7		Functions of Institute	Information provided under item IV (a) (1) (pg. 15-16)
		Quality & Excellence in Pharma Edu. Res.	Yes
		Courses- Masters/Ph.D/Post-Doc.	Masters/Ph.D/Post-Doc. Details provided under item IV (a) (7) (Ai) (pg. 39-40)
		Holding examinations/Degrees	M.S.(Pharm), M.Tech.(Pharm), M.Pharm., MBA (Pharm), PhD
		Confer Hon' Awards/Distinctions	Conferred on Dr. Harkishan Singh. In addition, the Institute awards AstraZeneca oration award and Dr. Parvinder Singh memorial award.
		Partnership with other Edu.Institutions	Pg. 21
		Courses for	Teachers
			Pharma Technologists
			Pharmacists
			Yes (Workshops; Summer and Winter Schools)
			Yes (SMPIC)
			Yes (Department of Pharmacy)

			Practice)
			Other Professionals
			Through Capacity Building Programme and under ITEC-SCAAP.
		Literature database & Info.Centre on Pharma, instrumentation and Analysis	Available at Library and Information Centre and at Department of Pharmacy Practice
		Central facility for Pharma instrumentation & Analysis	Central Instruments Lab (CIL)
		Centre for Pharma Teacher Training	Not envisaged
		Multi-disciplinary Approach in research and training of Pharma Manpower	Employed
		National/Intern.Symposia/Seminars/Conf.	Held regularly
		Academy& Industry partnership	SMPIC; Industry-Academia Business Meet; Collaborative projects
		Studies on distribution and usage of drugs by rural masses	Carried out by students of Department of Pharmacy Practice
		World level Centre for Pharma Knowledge Centre	Yes; through high-impact publications
		Courses to cater Developing country needs	Conducted under ITEC-SCAAP
9		Equity	Information provided under item IV (a) (7)(C)
		Inclusiveness and Diversity-Members, Students, teachers and workers and NIPER activities / functions / celebrations	All stakeholders are assigned appropriate duties & responsibilities with any bias and all are equally afforded opportunity for participation.
		Social / gender / religious / Disability and State / UT wise diversity	Equal opportunity is afforded to all without any bias.
21-24		Finances, Accounts and Audit	
		Number of Accounts with purpose and Status	Annexure 1 (Pg 122-177)
		Government funding (Plan & Non-Plan separately) since inception	Annexure 2 (Pg 178-179)
		Other sources of funding-fees, charges, grants, gifts, donations, bequests, transfers etc.	Annexure 3 (Pg 180-183)
		Endowment funds any	Endowment Chair Fund is created with bal. of Rs 1.21 Cr as on 20-02-2016.
		Accounts & record updated status	Updated tilldate
		Compliance to directions of GoI and CAG on Annual Statement of Accounts & Balance sheet	Directions of GOI & CAG are fully complied with.
		Annual Statement of Accounts & Balance sheet preparation	Annual Accounts FY 2014-15 have been finalized.
		Status of Audit of accounts by CAG	Reply of all paras stand submitted to CAG
		CAG Audit observations during the last 5 years	
		Issues in Pensions and PF provisions of Employees	Actuary Appointed to assess total

			Pension liability. PF provisions are being made regularly.
25		Appointments	
		No.of Academic Staff appointments approved and not approved by the BoG	Approved – 31 Not Approved – 00
		No.of Non-Academic Staff appointments approved and not approved by BoG	Approved – 01 Not Approved – 00
		Other appointments approved and not approved by BoG / Director	All appointments have been approved by appropriate appointing authorities.
	4	Appointment of Faculty	
		Any relaxation of eligibility condition extended till date to any with reason	} Issue is under consideration of high level regularization committees
		No.of appointments not approved by the Board	
		No.of Faculty not complying with required eligibility conditions	
		No. and % of ad hoc appointments	Nil
		No.of adhoc appointments extended more than one year	Nil
	5	Career Advancement Scheme	
		No.of faculty promoted and not promoted under the scheme	Promoted – 22 Not Promoted – 00
26		Statutes formed (Yes / No)	Yes
		No.of Departments of teaching-created and operational	10
		No.of Fellowships, scholarships, exhibitions, medals and prizes	Not instituted formally by BoG yet.
		Classification, method of appointment, terms & conditions of officers	As per Act & Statutes.
		Reservation of posts	As per Reservation Roster applicable.
		Pensions, insurance, PF	Being deducted & compiled
		Constitution, powers and duties of authorities	As per Act & Statutes. Annexure '8'.
		Establishment, maintenance of Hostels and halls.	Being maintained properly.
		Manner of filling vacancies among members of the Board	As per Act & Statutes. Annexure '7'.(Pg 208-212)
	5/6	Manpower position:	
		Permanent-Sanctioned / In position / Vacancy (Academic-Designation wise and Non-Academic)	Shown above under Manpower – Academic & Non Academic.
		Contract-Sanctioned / In position/ Vacancy (Academic-Designation wise and Non-Academic-)	-
	7	Search for New Faculty / even from Abroad	-
	9	Compliance of appointment of Director as per Statute	Selection of Director Under

			Process.
	11	Establishment of Endowment chair if any	Yes, Endowment Chair Fund is created with bal. of Rs 1.21 Cr as on 20-02-2016.
	12	Pay Structure: Is it as per IITs	Yes
	13	Compliance of other amenities/ allowances/memberships/ conferences/ conduct rules (20),	As per GOI Instructions.
	21	Disciplinary cases Status	01 under process
		Capacity building	Done from time to time.
		Director/Dean/Registrars/HoDs on Government Financial Management, Accounting and Auditing.	As per GOI Instructions
	22	Consultancy	Information provided under item IV (13) (iii)
		Contract Research Status	Information provided under item IV (13) (iii)
		Consultancy Status	Information provided under item IV (13) (iii)
		Intellectual Property	Information provided under item IV (8) (iii)
30		Constitution of Tribunal of Arbitration, operational status and cases	None
		Other Administrative issues	
		Action on H.E. President of India Speech	Regularly held at the Computer Centre through Video-Conferencing NKN, as per the following schedule: 07.01.2014 19.01.2015 10.08.2015 19.01.2016
		Website-Reflection of progress appropriately	Website appropriately reflects the NIPER activities
		RTI Act, 2005	RTI Act 2005 is complied with in toto.
		Citizen charter	Pending to be adopted.
		Pending issues	Pending to be adopted.
		Constitution of BoG	BoG is under constitution since 21.06.2014, so is the nomination of Chairperson, BoG.
		Filling up of BoG Vacancies	-As explained above.

2. Authorities

S. No.	Designation	Name	Date of Joining of Institute	Remarks
--------	-------------	------	------------------------------	---------

1.	Chairperson	-	-	-
2.	Director	Dr. K.K. Bhutani	01-09-1994	Officiating
3.	Dean	Dr. Asit K. Chakraborti	09-11-1994	Dean since 03.07.2014
4.	Registrar	Wing Cdr. PJP Singh Waraich (Retd.)	04-07-2011	-

3. Director, Dean and Registrar and other authorities

S. No.	Designation	Name	Date of Joining of Institute	Remarks
1.	Chairperson	-	-	-
2.	Director	Dr. K.K. Bhutani	01-01-2010	Officiating
3.	Dean	Dr. Asit K. Chakraborti	09-11-1994	Dean since 03.07.2014
4.	Registrar	Wing Cdr. PJP Singh Waraich (Retd.)	04-07-2011	-

7. Learning Environment/ Academics

A. Students

- i. Degrees and Subjects offered, curriculum and regular revision, duration, credits, assessment system,
- ii. Completion rates: Students pass out year wise against capacity and admission at UG,PG, Ph.D, PDF,
- iii. Teacher-Student ratio
- iv. Student Satisfaction surveys and Employers perceptions
- v. Employability/ Placements
- vi. Ranking by Subject
- vii. Issues in each of the above items and measures proposed to improve performance

A. Students

- i) Degrees and Subjects offered, curriculum and regular revision, duration, credits, assessment system

Degree	Discipline
M.S. (Pharm.)	<ul style="list-style-type: none"> • Medicinal Chemistry (MC) • Natural Products (NP) • Traditional Medicine (TM) • Pharmacoinformatics (PI) • Pharmaceutical Analysis (PA) • Pharmacology and Toxicology (PC) • Regulatory Toxicology (RT) • Pharmaceutics (PE) • Biotechnology (BT)
M.Pharm.	<ul style="list-style-type: none"> • Pharmacy Practice (PP) • Clinical Research (CR)
M.Tech. (Pharm.)	<ul style="list-style-type: none"> • Pharmaceutical Technology (Process Chemistry) (PTPC) • Pharmaceutical Technology (Formulations) (PTF) • Pharmaceutical Technology (Biotechnology) (PTBT)
M.B.A. (Pharm.)	<ul style="list-style-type: none"> • Pharmaceutical Management (PM)
Ph.D.	In all the above disciplines except TM, RT, CR and PM

Curriculum and Regular revision- Course curriculum was revised in last BSR held 22nd October, 2013

01	Duration	For Masters & MBA – 2-3 Yrs
----	-----------------	-----------------------------

		For PhD- 3-5 Yrs
02	Credits	Masters (except Pharmacoinformatics)-50 out of which 30 course work and 20 project work
		Masters (Pharmacoinformatics) – 50 out of which 34 course work and 18 project work
03	MBA (Pharm)	100 out of which 85 course work, 12 project work and 2 summer training
04	PhD	For Masters & MBA – 2-3 Yrs Internal student – 12 Credits
		For PhD- 3-5 Yrs External students – 28 credits

Assessment System – Semester System through CGPA

ii. Completion Rate:

Year of graduation	MS (admitted)	Completion rate	MBA (admitted)	Completion rate	Ph.D. (admitted)	Ph.D. (graduated)
1998	27	100%	-	-	24**	-
1999	35	100%	-	-	1	-
2000	37	100%	-	-	9	-
2001	43	100%	-	-	10**	-
2002	55	100%	28	100%	17	16, 1 dropped
2003	69	97%	29	100%	21	19, 2 dropped
2004	86	98.8%	29	96.5%	14	9, 51 dropped
2005	87	100%	20	95%	14	14
2006	91	97.8%	30	100%	27	22, 5 dropped
2007	100	99%	35	97%	35	30, 4 dropped, 1 expired
2008	128	98.4%	40	92.5%	22	19, 3 dropped
2009	150	98%	44	97.7%	20	18, 1 dropped, 1 expired
2010	251	91.6%	61	95%	46	28, 11 dropped, 7 doing
2011	244	95%	58	100%	34	11, 3 dropped
2012	271	94.46%	65	98.46%	40	00 (On going), 12 dropped, 20 doing
2013	174	95.97%	28	100%	23	00 (doing)
2014	196	Continuing	39	Continuing	27	00 (doing)
2015	216	Continuing	45	Continuing	25	00 (doing)

* Change from three-semester to four-semester system

**Including admission in both semesters of the calendar year

iii. Teacher-Student ratio

2014-2016 batch		2015-2017 batch		Ph.D.
M.S. (Pharm), M.Pharm., M.Tech.(Pharm)	MBA (Pharm)	M.S. (Pharm), M.Pharm., M.Tech.(Pharm)	MBA (Pharm)	
1:5.8	1:12.3	1:7.5	1:15	1:4

iv. Student satisfaction surveys and employers perceptions

Faculty Assessment- After completion of every semester each faculty who is offering course work is assessed by the concerned students on the following parameters:

- Ability to bring conceptual clarity
- Teacher's communication ability
- Teacher's regularity
- Teacher's grasp of subject matter
- Promotion of thinking ability by teacher
- Completion of course
- General awareness of teacher
- Motivation provided by teacher
- Encouragement to ask questions

Average score is calculated and put up to Dean for approval and further the same is intimated to each faculty member.

Employers' perception:

There is no formal mechanism to receive feedback from the companies. However, the continued recruitment of the graduating students by the top ten pharmaceutical companies is proof of their training. The students of NIPER are recognized for their technical knowledge & industry has praised the Alumni of NIPER, Mohali working with them for the technical skill set they have in comparison to the students of any other pharmaceutical institute in the country. The students are well known for their hands on experience/practical knowledge of the technical/complex equipments & processes before joining the industry. Another common feedback by industry expert is that among different students coming from various departments at NIPER, Mohali - the minimum common desired level of skill set differs a lot. This has its implications that due to inherent factors in education given at NIPER, Mohali due to which the placement level differs among different departments of NIPER. The industry professional feel the students would have a better holistic approach if they can be trained in interdepartmental skills. The pharmaceutical industry is growing beyond its conventional core field, to the consultancy sector and non-manufacturing sector in India. The R&D sector is still recruiting but the emphasis is on hiring top students having high analytical quotient. Besides being the best technical students for the core pharmaceutical industry in India, a large chunk of students have been found to have significant gaps in their soft skill level, i.e. aptitude, written and spoken English, confidence and ability to express themselves, non-technical analytical skills. The industry has always given preference to the students of NIPER, Mohali to work with them in any sector (core, consultancy & non manufacturing), meanwhile industry professionals have always suggested that if students are given training on soft & non technical analytical skills or if it can be included in their regular curriculum the student would come out as more market oriented and industry ready package.

v. Employability/ Placements

Placements

Year	Total Students Passed out	Total Offered Employment		
		Industry	Academics	Total
1999	27	9	18	27
2000	35	10	25	35
2001	37	19	18	37
2002	43	21	14	35
2003	55	43	12	55
2004*	-	25	3	28
2005	67	55	31	86
2006	85	78	0	78
2007	87	52	36	88
2008	89	70	12	82
2009	99	72	22	94
2010	126	103	22	125**
2011	147	90	23	113**
2012	230	98	21	119**
2013	232	156	23	179**
2014	257	161	20	181***
2015	167	132	11	143***

* Semester system changed from 3 to 4.

** As per data collected from Departments.

*** Only on-campus placements included (Placement Cell).

vi. Ranking by Subject

Discipline	Position of first rank holder in NIPER JEE
Medicinal Chemistry (MC)	35
Natural Products (NP)	337
Traditional Medicine (TM)	416
Pharmacoinformatics (PI)	192
Pharmaceutical Analysis (PA)	2
Pharmacology and Toxicology (PC)	12
Regulatory Toxicology (RT)	58
Pharmaceutics (PE)	1
Biotechnology (BT)	76
Pharmacy Practice (PP)	207
Clinical Research (CR)	171
Pharmaceutical Technology (Process Chemistry) (PTPC)	235
Pharmaceutical Technology (Formulations) (PTF)	21

Pharmaceutical Technology (Biotechnology) (PTBT)	260
Pharmaceutical Management (PM)	1 (MBA Rank)

vii. Issues in each of the above items and measures proposed to improve performance-

As discussed under 'Employers' perception' (pg. 42), some changes are needed to improve soft skills of students as they come from diverse backgrounds.

B. Teachers

- i. Teaching faculty sanctioned, working and vacancies- category wise
- ii. Teachers capacity building programmes- workshops/ conferences/ seminars –inhouse and visited outside.
- iii. Recognition to Faculty
- iv. Peer review system
- v. Issues in each of the above items and measures proposed to improve performance

i. Teaching faculty sanctioned, working and vacancies- category wise

Sl.No.	Name of the Post	Sanctioned	Filled	Vacant
1	Professor	14	16	-2
2	Associate Professor	18	9	9
3	Assistant Professor	29	6	23

ii. Teachers capacity building programmes- workshops/ conferences/ seminars –inhouse and visited outside.

The programmes (during 2007-2012) covered wide research and technology domains as under:

- 5 annual ITEC / SCAAP training programmes on behalf of Ministry of External Affairs
- 15 Capacity building programs for Ministry of Health funded by World Bank
- 4 International conferences on DMPK
- 7 Summer / Winter Nanotechnology Schools
- 2 International conferences on Natural Products Chemistry
- 10 Training programmes for the staff of small and medium pharmaceutical industries.
- Summer School for 60 participants on modelling and bioinformatics in drug design

3. Recognition to faculty:

Information provided in pg. 22-23.

iv. Peer review system:

As per Gol rules, faculty members submit ACARs detailing the teaching, research and other activities carried out by them during the previous financial year. Faculty members also present their research work in regular meetings of the Academic Planning and Development Committee, a statutory committee of the Institute comprising of eminent scientists

C. Equity

i. NIPER rating on Equity-Inclusiveness & Diversity –Faculty, Students, Staff and activities.

- a) Parameters to be used are based on MHRD DISE :Distribution State / UT, gender, educationally marginalised social groups- SC, ST, Muslims, Disabilities wise and are to be analysed in 3 different ways – Students, Faculty, Technical and support Staff and functions /activities to promote and celebrate diversity.(one page for each analysis)
- b) Measures proposed to reflect social, gender, religious, cultural, geographic and disability diversity reflecting national character among faculty, administration, technical and support staff; students and NIPER activities/ functions/ celebrations.
 - (i) The reservation policies as per the Government norms for SC /ST/OBC and physically handicapped students are strictly followed.
 - (ii) To give equal opportunity to the transgender sex, an additional category of transgender in the admission forms for Masters and PhD courses has been added.
 - (iii) SPANDAN is an annual function of the Institute with the duration of over a month. This function is to commemorate the sports and the cultural activities of the Institute. The Faculty, Students and the Staff participate in the SPANDAN. The function culminates with the distribution of Medals, Prizes and Certificates to the participants, organization of the cultural programme.
 - (iv) Other extracurricular activities include organization of Hindi Pakhwaras in which various competitive activities like Essay competition, poetry recitation etc. are organized and the cash prizes and trophies are given away to the winners of these competitions.
 - (V) Equal opportunity irrespective of gender is given to all the faculty, students and staff to participate in all the extracurricular activities being organized from time to time.

a) Employees

Report on SC,ST,OBC and Disable Employment

As on 31st March 2016

Reservation Category	SC	ST	OBC	Disabled
% as per statute	16.66	7.5	25.84	3

Institute Name : National Institute of Pharmaceutical Education & Research, Mohali

(A) Employees as on 31st March 2016

Nature of Employment	Group	Employees Total	Break up: category wise number and % employees against total number of employees.							
			SC		ST		OBC		Disabled	
			No.	%	No.	%	No.	%	No.	%
Regular Employees	A	45	02	04.45	01	02.22	01	02.22	-	-
	B	79	09	11.39	01	01.27	12	15.19	01	1.27
	C	35	05	14.29	03	08.57	09	25.71	02	5.71
	Total: A	155	16	10.32	05	03.22	22	14.19	03	1.93
	Contractual Employees	A	3	-	-	-	-	1	33.33	1	33.33
B		-	-	-	-	-	-	-	-	-
C		-	-	-	-	-	-	-	-	-
Total: B		3	-	-	-	-	1	33.33	1	33.33
Outsourced Employees	A	2	-	-	-	-	-	-	-	-
	B	-	-	-	-	-	-	-	-	-
	C	-	-	-	-	-	-	-	-	-
	Total: C	2	-	-	-	-	-	-	-	-

Reasons: In case there is a shortage / vacancies not in proportion to statute, please examine and submit reasons.

Finance Officer: Name & Signature with date	Registrar: Name & Signature with date	Dean : Name & Signature with date	Director: Name & Signature with date
------------------------------------------------	---------------------------------------	-----------------------------------	--------------------------------------

Manpower Selection Committees- operational health and effectiveness for SCs and STs.

Annexure-A-2

(56)

Institute Name: NATIONAL INSTITUTE OF PHARMACEUTICAL EDUCATION AND RESEARCH, SECTOR-67, S.A.S.NAGAR

1	Number of Regular Positions/ posts recruited during the last year	03
2	Number of Contractual positions/ posts recruited during the last year	NIL
3	Number of Outsourced positions/ posts taken during the last year	NIL
4	Number of Advertisements given for the above said posts/ positions during the last year	01(09/2014)
5	Number of Selection Committee/Boards constituted for the above said posts during the last year	03

Breakup

1. Group wise posts recruited

Nature	Group A	Group B	Group C	Group D	Others	Total
A. Regular	02	01	---	---	---	03
B. Contractual	---	---	---	---	---	---
C. Outsourced	---	---	---	---	---	---
Total	02	01	---	---	---	03

2. Information on advertisements given to different posts

(a) Advertisements information:

Advertisement No.	Nature of Post Regular/ Contractual/Outsourced	No of regular posts advertised in each of the Advt.					No.of Contractual posts advertised	No.of employees on outsourcing	Whether posts have been earmarked category wise. (Yes/No)	Newspaper names & languages in which Advt. was given
		A	B	C	D	Total				
09/2014	Regular	04	02	---	---	06	---	---	--YES--	Emp. News-Eng,Hin,Pun.
Total	Total: Regular	04	02	---	---	06	---	---	---	Times Of India-English
	Total: Contractual	---	---	---	---	---	---	---	---	Tribune-CHD, English
	Total: Outsourced	---	---	---	---	---	---	---	---	Dainik Bhashar-CHD-HINDI Punjabi Tribune-CHD-Punjabi

3. Constitution of Selection Committee/Board

Post / Designation	Post Group (A/B/C/D/ Contractual/ Outsourced)	No. of Posts	Name of the Authority to constitute the Selection Committee/Board	Date of constitution	Whether SC/ST Community member is included in Selection Committee/Board
		06	DIRECTOR	18/12/2014	--yes--

4.Reasons for non-compliance of DOPT OMs if any:

Finance Officer: Name & Signature	Registrar: Name & Signature	Dean Name & Signature with date	Director: Name & Signature & date
-----------------------------------	-----------------------------	---------------------------------	-----------------------------------

Report on Minorities Employment (PMs New 15 Point Programme)
No. of Minority employees at the end of the last financial year March

Population	Muslims	Christian	Sikhs	Zoroastrian	Jain
Population % at Nation level as per latest census available	13.4%	2.3%	1.9%	---	0.4%

Institute Name:**(A). Employees as on 31st March of the financial Year.**

Nature of Employment	Group	As on 31 st March of Year		Break Up: Minority wise number and % employees against total number of employees.										
		Employees Total	Minorities		Muslims		Christian		Sikhs		Zoroastrian		Jain	
			No.	%	No.	%	No.	%	No.	%	No.	%	No.	%
Regular Employees	A	45	09	20.0	---	---	02	4.4	04	8.89	---	---	03	6.67
	B	79	10	12.6	01	1.26	---	---	09	11.39	---	---	---	---
	C	35	03	8.6	01	2.85	---	---	02	5.71	---	---	---	---
	Total: A	159	22	13.8	02	1.26	02	1.26	15	9.43	---	---	03	1.89
		03	01	33.3	---	---	---	---	01	33.3	---	---	---	---
Contractual Employees	A	---	---	---	---	---	---	---	---	---	---	---	---	---
	B	---	---	---	---	---	---	---	---	---	---	---	---	---
	C	---	---	---	---	---	---	---	---	---	---	---	---	---
	D	---	---	---	---	---	---	---	---	---	---	---	---	---
	Total:B	03	01	33.3	---	---	---	---	01	33.3	---	---	---	---
Outsourced Employees	A	02	01	50.0	---	---	---	---	01	50.0	---	---	---	---
	B	---	---	---	---	---	---	---	---	---	---	---	---	---
	C	---	---	---	---	---	---	---	---	---	---	---	---	---
	D	---	---	---	---	---	---	---	---	---	---	---	---	---
	Total:C	02	01	50.0	---	---	---	---	---	---	---	---	---	---
Grand Total	GT:	164	24	14.6	02	1.21	02	1.21	17	10.36	---	---	03	1.83

Reasons: In case there is a decline in percentage of recruitment with reference to previous year and their national population percentage, please examine and submit reasons.

Finance Officer: Name & Signature with date	Registrar: Name & Signature with date	Dean Name & Signature with date	Director: Name & Signature with date
---------------------------------------------	---------------------------------------	---------------------------------	--------------------------------------

A.5.1.In Faculty:

Trend in employment of SC, ST, OBCs, Minorities and the Disabled for last 7 Years

(151)

Year	Total Numbers	Absolute Numbers									% of total Employees									
		SC	ST	OBC	Minorities					Disabled	SC	ST	OBC	Minorities					Disabled	
					Muslims	Christians	Sikhs	Zoroastrians	Jain					Muslims	Christians	Sikhs	Zoroastrians	Jain		
2010	02	---	---	---	---	---	---	01	---	---	---	---	---	---	---	---	---	---	---	---
2011	01	---	---	---	---	---	---	---	---	---	---	---	---	---	---	50	---	---	---	---
2012	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
2013	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
2014	02	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
2015	02	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
2016	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Total	07	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---

Reasons:

- Reasons: In case there is a shortage / vacancies not in proportion to statute, please examine and submit reasons and interventions proposed.
- In case of Minorities, if there is a decline in percentage of recruitment with reference to previous year and their national population percentage, please examine and submit reasons and intervention proposed for more inclusivity and to promote diversity.

A.5.2.In other Group-A (Non-faculty)

Year	Total Numbers	Absolute Numbers									% of total Employees									
		SC	ST	OBC	Minorities					Disabled	SC	ST	OBC	Minorities					Disabled	
					Muslims	Christians	Sikhs	Zoroastrians	Jain					Muslims	Christians	Sikhs	Zoroastrians	Jain		
2010	01	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
2011	02	---	---	01	---	---	01	---	---	---	---	---	---	50.0	---	---	---	---	---	---
2012	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
2013	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
2014	02	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
2015	02	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
2016	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Total	07	---	---	01	---	---	01	---	---	---	---	---	14.3	---	---	14.3	---	---	---	---

Reasons:

- Reasons: In case there is a shortage / vacancies not in proportion to statute, please examine and submit reasons and interventions proposed.
- In case of Minorities, if there is a decline in percentage of recruitment with reference to previous year and their national population percentage, please examine and submit reasons and intervention proposed for more inclusivity and to promote diversity.

A.5.3.In Group-B & C

(151)

Year	Total Numbers	Absolute Numbers									% of total Employees										
		SC	ST	OBC	Minorities					Disabled	SC	ST	OBC	Minorities					Disabled		
					Muslims	Christians	Sikhs	Zoroastrians	Jain					Muslims	Christians	Sikhs	Zoroastrians	Jain			
2010	09	---	---	---	---	---	01	---	---	01	---	---	---	---	---	---	---	---	---	---	---
2011	17	03	---	05	---	---	01	---	---	02	17.6	---	29.4	---	---	11.1	---	---	---	11.1	
2012	03	---	---	01	---	---	01	---	---	---	---	---	33.3	---	---	5.89	---	---	---	11.76	
2013	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
2014	05	01	01	02	---	---	01	---	---	---	20	20	40	---	---	---	---	---	---	---	
2015	01	---	---	---	---	---	---	---	---	---	---	---	---	---	---	20	---	---	---	---	
2016	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
Total	35	04	01	08	---	---	04	---	---	03	11.4	2.86	22.86	---	---	11.43	---	---	---	8.57	

Reasons:

- Reasons: In case there is a shortage / vacancies not in proportion to statute, please examine and submit reasons and interventions proposed.
- In case of Minorities, if there is a decline in percentage of recruitment with reference to previous year and their national population percentage, please examine and submit reasons and intervention proposed for more inclusivity and to promote diversity.

A.5.4.In Group-D

Year	Total Numbers	Absolute Numbers									% of total Employees									
		SC	ST	OBC	Minorities					Disabled	SC	ST	OBC	Minorities					Disabled	
					Muslims	Christians	Sikhs	Zoroastrians	Jain					Muslims	Christians	Sikhs	Zoroastrians	Jain		
2010	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
2011	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
2012	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
2013	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
2014	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
2015	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
2016	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Total	00	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---

Reasons:

- Reasons: In case there is a shortage / vacancies not in proportion to statute, please examine and submit reasons and interventions proposed.
- In case of Minorities, if there is a decline in percentage of recruitment with reference to previous year and their national population percentage, please examine and submit reasons and intervention proposed for more inclusivity and to promote diversity.

(151)

A.5.5.In contract Manpower / services

Year	Total Numbers	Absolute Numbers									% of total Employees									
		SC	ST	OBC	Minorities					Disabled	SC	ST	OBC	Minorities					Disabled	
					Muslims	Christians	Sikhs	Zoroastrians	Jain					Muslims	Christians	Sikhs	Zoroastrians	Jain		
2010	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
2011	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
2012	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
2013	03	---	---	01	---	---	01	---	---	---	---	---	33.3	---	---	33.3	---	---	---	---
2014	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
2015	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
2016	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Total	03	---	---	01	---	---	01	---	---	---	---	---	33.3	---	---	33.3	---	---	---	---

Reasons:

- Reasons: In case there is a shortage / vacancies not in proportion to statute, please examine and submit reasons and interventions proposed.
- In case of Minorities, if there is a decline in percentage of recruitment with reference to previous year and their national population percentage, please examine and submit reasons and intervention proposed for more inclusivity and to promote diversity.

A.5.6.In outsourcing manpower/ services:

Year	Total Numbers	Absolute Numbers									% of total Employees									
		SC	ST	OBC	Minorities					Disabled	SC	ST	OBC	Minorities					Disabled	
					Muslims	Christians	Sikhs	Zoroastrians	Jain					Muslims	Christians	Sikhs	Zoroastrians	Jain		
2010	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
2011	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
2012	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
2013	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
2014	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
2015	01	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
2016	01	---	---	---	---	---	01	---	---	---	---	---	---	---	---	---	---	---	---	---
Total	02	---	---	---	---	---	01	---	---	---	---	---	---	---	---	50.0	---	---	---	---

Reasons:

- Reasons: In case there is a shortage / vacancies not in proportion to statute, please examine and submit reasons and interventions proposed.
- In case of Minorities, if there is a decline in percentage of recruitment with reference to previous year and their national population percentage, please examine and submit reasons and intervention proposed for more inclusivity and to promote diversity.

State wise list of Faculty, Staff & Contractual Staff

STATE	FACULTY		STATE	STAFF
Andhra Pradesh/ Telengana	01		Andhra Pradesh/ Telengana	05
Chandigarh	01		Bihar	06
Kerala	02		Chandigarh	16
Tamil Nadu	01		Haryana	14
West Bengal	06		Himachal Pradesh	12
Maharashtra	03		Jharkhand	04
Madhya Pradesh	02		Karnataka	01
New Delhi	04		Madhya Pradesh	01
Odisha	01		Maharashtra	05
Panjab	03		Manipur	02
Uttar Pradesh	05		Nagaland	01
Haryana	02		New Delhi	01
			Odisha	03
			Panjab	24
			Puducherry	01
			Rajasthan	02
			Tamil Nadu	03
			Uttar Pradesh	23
			West Bengal	02
			Uttarakhand	02
TOTAL FACULTY	31		TOTAL STAFF	128

STATE	CONTRACTUAL STAFF
Panjab	01
Madhya Pradesh	01
Himachal Pradesh	01
TOTAL CONTRACTUAL STAFF	03

(b) Students:**Report on SC,ST,OBC and Disabled students****(at the end of Financial year –March)**

Reservation category	SC	ST	OBC	Disabled
% as per statute	15	7.5	27	3

Institute Name: National Institute of Pharmaceutical Education and Research

a. Students as on 31st March of the financial year.

Category of students	Programme	Total students	Break up category wise number and % students against total number of students							
			SC		ST		OBC		Disabled	
			No.	%	No.	%	No.	%	No.	%
Regular students	Masters	388	59	15%	18	4.64%	108	27.8%	5	1.3%
	MBA	82	12	14.6%	5	6.09%	25	30.48%	1	1.2%
	PhD	111	16	14.41	..	..	31	27.92	1	0.90

Trend in enrolment of students of SC,ST, OBCs, Minorities and the Disabled for last 5 years

a. Masters

Year	Total numbers	Absolute numbers								% of total students										
		SC	ST	OBC	Minorities					Disabled	SC	ST	OBC	Minorities					Disabled	
2009	150	21	11	25						4	14	7.33	16.6							2.66
2010	251	36	17	66						7	14.34	6.77	26.29							2.78
2011	244	36	13	65						7	14.75	5.33	26.63							2.87
2012	271	40	18	72						6	14.76	6.64	26.56							2.21
2013	174	26	13	46						4	14.94	7.47	26.43							2.30

Ph.D.

Year	Total numbers	Absolute numbers								% of total students										
		SC	ST	OBC	Minorities					Disabled	SC	ST	OBC	Minorities					Disabled	
2011	33	7		0	-	-	-	-	-	-	21.21	-	-	-	-	-	-	-	-	-
2012	40	3		6	-	-	-	-	-	-	7.5	-	15	-	-	-	-	-	-	-
2013	22	2		8	-	-	-	-	-	-	9.09	-	36.37	-	-	-	-	-	-	-
2014	27	4		7	-	-	-	-	1	-	14.81	-	25.92	-	-	-	-	-	-	3.70
2015	25	5		10	-	-	-	-	-	-	20	-	40	-	-	-	-	-	-	-

Present Student Statistics

A. Masters

Geographic Location	% (out of total)	Religion	% (Out of total)	Native Language	% (Out of total)	Disability	% (Out of total)	Category	% (Out of Total)	Total Percentage of Male	Total Percentage of Female
Assam	2/476 (0.42)	Hindu	417/476 (87.60)	Bengali	19/476 (3.99)	PH	6/476 (1.26)	SC	71/476 (14.91)	258/476 (54.20)	218/476 (45.51)
Madhya Pradesh	47/476 (9.87)	Muslim	26/476 (5.46)	Bihari	03/476(0.63)			ST	24/476 (5.04)		
Bihar	8/476(1.68)	Sikh	22/476 (4.62)	Chhatisgarhi	1/476 (0.21)			OBC	136/476 (28.57)		
Chandigarh	9/476 (1.89)	Christian	11/476 (2.31)	Garwali	6/476 (1.26)			GEN	245/476 (51.47)		
Chattisgarh	12/476 (2.52)			Gujarati	31/476 (6.51)						
Delhi	23/476 (4.83)			Himachali	6/476 (1.26)						
Haryana	28/476 (5.88)			Hindi	168/476 (35.29)						
Himachal Pradesh	29/476(6.09)			Kanada	1/476 (0.21)						
Jammu & Kashmir	14/476 (2.94)			Kashmiri	14/476 (2.94)						
Jharkhand	2/476 (0.42)			Konkani	1/476						

					(0.21)					
Kerala	14/476 (2.94)			Maharathi	93/476 (19.53)					
Andhra Pradesh	31/476 (6.51)			Malayalam	15/476 (3.15)					
Gujrat	33/476 (6.93)			Mao	1/476 (0.21)					
Maharashtra	99/476 (20.79)			Punjabi	36/476 (7.56)					
Punjab	30/476 (6.30)			Marwari	1/476 (0.21)					
Rajasthan	5/476 (1.05)			Sindhi	1/476 (0.21)					
Tamil Nadu	3/476 (0.63)			Tamil	2/476 (0.42)					
Telangana	45/476 (9.45)			Telugu	74/476 (15.54)					
Utter Pradesh	19/476 (3.99)			Urdu	3/476 (0.63)					
Uttra Khand	6/476 (1.26)									
West Bengal	15/476 (3.15)									
Karnataka	1/476 (0.21)									
Manipur	1/476 (0.21)									
	476/476						6/476 (1.26)		476/47 6	476/476

B. Ph.D.

Geographic Location	% (out of total)	Religion	% (Out of total)	Native Language	% (Out of total)	Disability	% (Out of total)	Category	% (Out of Total)
AP	(10/111) 9.01	Hindu	(102/111) 91.89	Bengali	(1/111) 0.90	yes	(1/111)0.90	Gen	(63/111) 56.75
Bihar	(5/111) 4.50	Islam	(5/111) 4.50	Gujrati	(13/111) 11.71			SC	(16/111) 14.41
Bijai Nagar	(1/111) 0.90	Sikh	(4/111) 3.60	Hayanawi	(7/111) 6.30			OBC	(31/111) 27.92
Chandigarh	(3/111) 2.70			Hindi	(54/111) 48.64				
Gajwel	(1/111) 0.90			Kashmiri	(1/111) 0.90				
Gujrat	(15/111) 13.51			marathi	(10/111) 9.09				
Gwalior	(1/111) 0.90			Oriya	(2/111) 1.80				
Haryana	(11/111) 9.91			Punjabi	(6/111) 5.40				
HP	(5/111) 4.50			Rajasthani	(2/111) 1.80				
J&K	(1/111) 0.90			Telegu	(15/111) 13.51				
Jharkhand	(2/111) 1.80								
Maharashtra	(12/111) 10.81								
MP	(17/111) 15.32								
Orissa	(2/111) 1.80								
Punjab	(5/111) 4.50								

Rajasthan	(7/111) 6.31								
Telangana	(4/111) 3.60								
UP	(8/111) 7.21								
West Bengal	(1/111) 0.90								

8. Research

- i. Research Publications/ Institution and per Faculty and High Impact factor (IF > 3)
- ii. Citations – Institutional and per Faculty
- iii. Patents (Filed/Granted – Foreign/Indian)
- iv. Awards / Honours (Institution / Faculty / Students)
- v. Competitive Research Grants
- vi. Research Student Completions (Ph.D thesis submissions)
- vii. Eminent Alumni
- viii. Issues in each of the above items and measures proposed to improve performance

i. NIPER, S.A.S. Nagar has published ~1,950 papers, most of them in high impact, peer-reviewed journals. The highest impact factor among published papers is 40.

Average impact factor (total): 2.7

Average impact factor (2015): 2.8

Per faculty data compilation pending.

ii. Total citations (Scopus): 26,597 (accessed on 19.02.2016)

h-index (Scopus): 68

Per faculty data compilation pending.

iii. Patents (Filed/Granted – Foreign/Indian)

Total Patents Filed by NIPER: 179 (Average 7-10 patents are filed every year with average cost of Rs. 100,000/- per patent)

Indian Patents Granted: 40 (All granted live patents maintained by NIPER paying annuity fee of average Rs. 30,000-32,000/- roughly per patent.)

International Filing (PCT Filing): 08 (In the last four years average 2-3 PCT application filed every year with average cost of Rs. 3 Lacs per PCT application.)

Foreign Granted Patents: 14

List of patents filed from January 2015 to December 2015 is as follows: 12 Nos.

Sr. No.	Inventors	Patent Title	Filing Details
1	Asit K Chakraborti and Babita Tanwar	Synthesis of new 2-(2'-aminophenyl)benzazoles as potential anti-tubercular agents	2838/DEL/2015 Filed on 10.09.2015 K&S Ref. IP32256/SB
2	Manjinder Singh Gill, Nandini Sarvia, Dinesh Kumar Tanwar, Sarasija Suresh	Novel process for synthesis of propaphenone	2757/DEL/2015 Filed on 02/09/2015
3	Manjinder Singh Gill, Dinesh Kumar Tanwar, Nandini Sarvia, Rohani Prasad Burman, Sarasija Suresh,	A one pot synthesis of (\pm) propranolol, α β adrenergic blocking agent	2643/DEL/2015 filed on 26/08/2015
4	Sanyog Jain, Kaushik Thanki	Novel lipid drug conjugates for improved oral delivery of amphotericin b and nanoformulations thereof	1450/DEL/2015 filed on 22/05/2015 IP30884/AK/sr
5	Kunnatheri Pallathu Madhom	Ricinoleic acid glycoside compounds as	1855/DEL/2015 filed on

	Ravindaranathan Kartha, Kuppala Ramakrishna, Mugunthan Govindarajan, Kamlesh Kumar Bhutani, Hemraj Nandanwar	antimicrobial agents	23/06/2015 IP31233/NC/sa
6	Manjinder Singh Gill, Sarasija Suresh, Dinesh Kumar Tanwar, Rohani Prasad Burman, Anjali Ratan	Process for the preparation of sulfonylureas	3386/DEL/2015 filed on 20-10-2015
7	Manjinder Singh Gill, Sarasija Suresh, Dinesh Kumar Tanwar, Rohani Prasad Burman, Bhavana Deshmukh, Dilip Kumar Panninti	Process for the preparation of semicarbazides	3385/DEL/2015 filed on 20-10-2015
8	Manjinder Singh Gill, Sarasija Suresh, Dinesh Kumar Tanwar, Rohani Prasad Burman, Dilip Kumar Panninti, Bhavana Deshmukh	Process for the preparation of monosubstituted ureas	3384/DEL/2015 filed on 20-10-2015
9	Manjinder Singh Gill, Sarasija Suresh, Dinesh Kumar Tanwar, Rohani Prasad Burman, Anjali Ratan	Process for the preparation of unsymmetrical ureas	3387/DEL/2015 filed on 20-10-2015
10	Asit Kumar Chakraborti, Priyank Purohit, Shyam Sunder Sharma, Kapileswar Seth, Shivsharan Balbhim Kharatmal, Madhulika Singh, Gulshan Kumar	"2-(2-ARYL/ALKYL PHENYL) BENZAZOLES AS SELECTIVE COX-2 INHIBITORS"	2540/DEL/2015 Filed on 18-08-2015
11	Asit Kumar Chakraborti, Babita Tanwar	NOVEL 2-BIARYLBENZOXAZOLE COMPOUNDS AND THE PROCESS OF PREPARATION THEREOF	3433/DEL/2015 Filed on 23-10-2015
12	Asit Kumar Chakraborti, Babita Tanwar	ALKYL 1,2-DIAMINES AND ITS BIOISOSTER β -ARYLOXYAMINES AS POTENTIAL ANTI-TUBERCULAR AGENTS AND PREPARATION THEREOF	3430/DEL/2015 Filed on 23-10-2015

iv. Awards / Honours (Institution / Faculty / Students)

Information provided in pg. 21-22.

Institutional Recognition

Listed in pg. 22.

v. Competitive Research Grants

All extramural research grants received by faculty members are competitive in nature.

vi. Research Students Completions:

Batch-wise list of students Admitted & Passed Out:

Batch	Admitted Students			Total Admitted	Passed out students			Total Passed out	Remarks
	Masters	M.B.A.	Ph.D		Masters	M.B.A	Ph.D (Detail Pg 41)		
2000	37	---		37	37	---		37	
2001	43	---		43	43	---		43	
2002	55	28	17	100	55	28	16	93	
2003	69	29	21	119	67*	29	19	112	Two masters students passed in 2006 in place of 2005
2004	86	29	14	129	85*	28	9	122	Two masters students (2003-05) passed in 2006 in place of 2005 Two masters students of 2004-2006 passed in 2007
2005	87	20	14	121	87*	19	14	119	Two masters students of 2004-2006 passed in 2007
2006	91	30	27	148	89	30	22	123	
2007	100	35	35	170	99	34	30	143	
2008	128	40	22	190	126	37	19	175	
2009	150	44	20	214	147	43	18	201	
2010	251	61	46	358	230	56*	28	295	Two MBA students (2010-12) passed in 2013
2011	244	58	34	336	230*	53*	11	310	Two MBA students (2010-12) passed in 2011-13 One MBA student (2011-13) passed in 2012-14 Two Masters student of (2011-13) Passed in 2012-14
2012	271	65	40	376	258*	64*	00	344	Two master students (2011-13) Passed in 2012-14. One MBA student (2011-13) passed in

									2012-14.
2013	174	29	22	225	167	28	00	215	One student still not cleared
2014	196	39	27	262	..	..	00		MS & MBA Pending
2015	216	45	25	286	..	..	00		MS & MBA Pending

Note: Two Year Batch started from 2003 onwards.

M.B.A. Course started from 2002 onwards.

vii. Eminent Alumni:

Name	Position
Smriti Khanna	Senior Research Scientist at Piramal Enterprises Ltd., Mumbai
Navneet Kaur	Senior Scientist at MannKind Corporation, Greater New York City area
Amit Nayyar	Senior Research Scientist at AMRI (Albany Molecular Research Inc.) Singapore
Satish Malik	Senior Patent Analyst at CPA Global, Noida Area, India
Patel DhilonSureshbhai	Postdoctoral Fellow at University of Maryland, Baltimore, Greater New York City area
Dr. Rajesh Gulhane	Dy.General Manager (Head-IPR) at Ajanta Pharma Ltd.
Dr. Atul Kondasker	Patent Associate, R. K. Dewan and Company, Patent and Trademark Attorneys
Dr. Raj Kumar	Assistant Professor, Centre for Chemical and Pharmaceutical Sciences, Central University of Punjab, Bathinda, India
Vikramdeep Moga	Associate Professor, Rajendra Institute of Technology & Sciences
Sandeep Sundriyal	Department of Chemistry, Imperial College London, London SW7 2AZ, UK
Sawraj Singh	Biocon Ltd., S. Manager at Biocon
Manpreet Singh	Dr Reddy's Laboratory, Hyderabad Senior Scientist (Manager) Dr Reddy's Laboratory, Hyderabad
Pankaj Soni	The Coca-Cola Company, Greater Atlanta area Biotechnology Global Research Scientist, The Coca-Cola Company
Anirban Banerjee	Asst. Professor, IIT Mumbai
Mani Shankar Bhattacharya	Scientist, IMTECH, Chandigarh
Parikshit V. Khokale	Associate Scientific Manager (F & D) at Biocon Research Centre
Kamlesh Meena	Assistant professor at L.B.S.College of Pharmacy, Jaipur
Rahul DevJayant	Postdoctoral Associate, Herbert Wertheim College of Medicine Florida International University
Akhil Verma	Manager at EY, Global Business Insights (a division of the Informa group), McKinsey & Company
Chitresh Kumari	HTA & Payer Evidence Analyst, NOVARTIS
Sachin Kumar Dubey	Formulation Scientist and Business Development at NovozymesBiopharma, Copenhagen, Denmark
Amit Singh	Associate professor, Department of pharmaceuticals, Lovely professional Univ. Jalandhar
Shailesh Shinde	Project Manager at Saiadvantiumpharma ltd, Pune
Jagmohan	Senior Analyst at Heron Health (A PAREXEL COMPANY), Chandigarh.
Anil Wagh	Formulation Scientist: Parenteral Dosage Forms, Baltimore, Maryland Area

Lokesh Kumar	Associate Scientist - Genentech San Francisco Bay AreaPharmaceuticals
Sarsvat Patel	Pharmaceutical Research Scientist Greater New York City AreaPharmaceuticals, Long Island University
VibhaPuri	Pharmaceutical research scientist Novartis-MIT Center for Continuous Manufacturing, MIT
Piyush Gupta	Associate Director at Dr. Reddy's Laboratories, Hyderabad Area, IndiaPharmaceuticals, Current Dr. Reddy's Laboratories
Adi Kaushal	Scientist at Capsugel/Bend Research, Bend, Oregon Pharmaceuticals

	Monika Bakshi Sharma	Scientist, New Product Development at Teva Pharmaceuticals, Stockport, UK
	Vijay Kumar	Scientist, Forensic Laboratory
	Thang Mariappan	Senior Principal Investigator at Biocon Bristol Myers Squibb Research and development centre, Bangalore
	Hemanth Bhutani	Lead investigator, Biocon Bristol Myers Squibb Research and development centre, Bangalore
	Gulshan K. Bansal	Reader at Dept. of Pharm. Sci. & Drug Research, Punjabi University, Patiala
	Bhagwat Prasad	Acting Assistant Professor, Department of Pharmaceutics, University of Washington
	Ravi P. Shah	Principal investigator at Bristol Myers Squibb Research and development centre, Bangalore

Srinivas Ghatta	Principal Scientist at GlaxoSmithKline (greater Philadelphia area),
Dr. Anil Gaikwad	Asst. Professor BITS Pilani
Shweta Padmanabhan	SCIENTIST BIOCON-BMS RESEARCH CENTRE
Aditya Khanna	Associate Director Emerging Markets at Biologics, DRL
Alok Kumar	Associate Director Strategic Alliance and BD at DRL
Imran Parvez	Head-Regulatory Affairs at MEDTRONICS
Kannan I	Associate Director at DRL
Pushpinder Singh	Manager Regulatory affairs at TEVA Pharmaceuticals
Rahul Bhargava	Director at XL Lab.pvt ltd
Roopesh Kumar	Engagement Manager, Pharma and Life sciences at SG Analytics
SaurabhGoel	Associate Principal at Aspect Ratio
Dhaval Shah	Senior Court Manager at The High Court of Gujarat, Ahmedabad
C. Selvam	Assistant prof. Southern Texas university
D.D. Singh	Professor Central university of Punjab, Bathinda
Sandeep Bharate	Sr. Scientist, IIIM Jammu

Uma Ranjanlal	Assistant Prof., BITS Mesra
Atul Jadav	Principle Scientist, Himalaya Pharmaceuticals
Hemant Jadav	Associate Prof., BITS Pilani
Atish Paul	Assistant Prof., BITS Pilani
Chitra Arvind	Principal Associate, RAJESHWARI & ASSOCIATES Gurgaon, India Legal Services
K. Thanzami	Lecturer, Regional Institute of Paramedical and Nursing Sciences, Aizawl
Nishant Kumar Jain	Senior Scientist, Vaxess Technologies, Cambridge, Massachusetts, USA
Ruchira Banerjee	GlaxoSmithKline, Mumbai
Khadatare Prashant B.	Echo Solutions Pvt. Ltd., Mumbai
Kaluskar Mitali S.	Sun Pharma, Mumbai
Sutariya Nimesh M.	Dr. Reddy's Laboratory, Hyderabad
Krishna Azmeera	United Health Group, Hyderabad
Priyanka Raju	Clinical Data Analyst, Research in Real Life, London, UK
Rupen Bhavsar	Intas Biopharmaceuticals Ltd.
Jatin Patel	Intas Biopharmaceuticals Ltd.
Vishal Patel	Sun Pharma, Vadodara
Kamalpreet Kaur	Mankind Pharma, New Delhi
Radha Joshi	Intellectual Property Rights Department, Biocon, Bangalore
Ravinder Malik	Postdoctoral fellow, LSU, USA
Rajeev Kumar	Scientist, Sun Pharma, Vadodara
Subhabrata Kar	Assistant Professor, School of Biosciences, Apeejay Stya University, Sohna, Haryana
Sunil Nankar	Senior Research Associate, Wockhardt
Priyanka Bajaj	Postdoctoral fellow, University of Rochester, USA
Mayur Anant Mhadeshwar	Technical Marketing Manager at SA pharma- Chem Pvt. Ltd.
Yogesh Babarao Virkhade	Senior Executive at international regulatory affairs, Biocon .
V Bhavana	Senior Analyst in Healthcare division
P Janaki Raghu Ram	Scientist, Dr. Reddys Lab Pvt. Ltd, Hyderabad
Thakkar Janak shrikant	Production Executive Maneger at GSK Pharma ltd.
Rajesh Kumar Shah	Govt. Pharmacist in Madhya Pradesh
Mayur Parekh	Tr. research associate, R & D @ Intas Pharmaceuticals
Shambhavi Pokhriyal	Pharmacovigilance scientist
Rajashekhar A	Diabetes Educator at Eli Lilly and Company (India) Pvt. Ltd.
Sowmya Priya G	Trainee Knowledge Scientist

Mulkapalli Nagarjuna	Senior Reseacher @ DMV Business & Market Research Pvt. Ltd. (Global Data)
Anirudh Nema	Product Executive at Naticon Research Labs
I. Sravan Kumar	Lecturer in Vaasavi College of Pharmacy, Kadapa, Andhra Pradesh.
Raju. K	Bharat Biotech, A.P.
Deepika Jatekar	Infinx Services Pvt Ltd, Mumbai
Ankita Giri	Quantum Solutions, Chandigarh.
P. Prithvi Raj	E- value Serve, Gurgaon
Jakka. S. S. Supin	Macleod's Pharmaceuticals, Mumbai
Dolly Mohanani	Dolcera, Hyderabad
S. Rashmi	D2L Pharma Solutions, Bangalore
B. Pravalika	Global Data, Hyderabad
Kayala Kambagiri Swamy	Biocon, Bangalore
Desale Jayesh Namdeo	Intas, Gujarat
S Shiva Prasad	Global Data, Hyderabad
B. Samiullah	Shanta Biotech, Hyderabad
S. Sirisha	Biocon, Bangalore

viii. Issues which need to be addressed to improve performance:

1. Timely release of funds, both Plan and Non-plan, remains the major constraint. Gaps in research schemes due to lack of funds can seriously affect the growth spurt which has been observed recently.
2. Govt. of India, through the Department of Pharmaceuticals, can approach its consulates in developing countries (ITEC-SCAAP) to enquire about their needs in the pharmaceutical sector. Syllabi, with hands-on training, could be designed and executed by faculty of NIPER, S.A.S. Nagar, which will be tailor-made for the user, i.e. the pharmaceutical sector worker in a particular country.
3. Refresher courses for teachers at the B.Pharm. and M.Pharm. levels, to make them aware of the current practices of the pharmaceutical sector, could be conducted by faculty of NIPER, S.A.S. Nagar. Participation of the Department at the recruitment stage will be helpful.
4. DoP could facilitate the participation of NIPER, S.A.S. Nagar, in meetings of various industrial associations so that the NIPER, S.A.S. Nagar should also be a part of the delegation visiting various destinations, both domestic and international, especially developing countries, to judge their requirements and present our capabilities.
5. DoP could facilitate the data being made available by various organisations (public and private) so that NIPER, S.A.S. Nagar could take over the arduous task of creating databases for various neglected diseases as well as leads which are usually lost in academic labs.
6. The support of DoP is needed to evolve an action plan for subsidizing technical, analytical and other support to the SME sector.

9. Land and Civil Works and Major Equipment

- i. Land availability issues/challenges and alternatives
- ii. Land development
- iii. Civil Work progress
- iv. Action plan with timelines for developing Infrastructure with responsible officer/DoP
- v. Equipment
- vi. Issues in each of the above items
- vii. Issues in each of the above items and measures proposed to improve performance

9 (i). Land Availability Issues/ Challenges and Alternatives

Land Availability Issues. NIPER Mohali has about 146 acres of land as per Punjab Govt. notification, out of which 60% area has been utilized and remaining area has a big Nallah flowing through the campus and an overhead 66 KV HT cable also passes through a portion of the campus.

So far adequate land in NIPER was available till execution of 11th Five Year Plan works and also adequate land exists for carrying out projected 12th Five Year Plan works.

Challenges and Alternatives. About 25% of total available land at NIPER is covered with a Nallah which passes through it and divides it into two prominent areas which are now connected with each other with the help of two bridges and an additional service bridge.

NIPER being a research and educational institute and having been bestowed with rich flora and fauna, would at one stage like to cover the Nallah and utilize that area to add to its beauty or utilize it for futuristic research and educational requirements.

Keeping in mind futuristic NIPER requirements, overhead high tension cables will have to be changed to underground cables in the entire campus and there will be a need to upgrade electric power substation from existing 11 KV to 33/66 KV substation.

With the increase in NIPER strength, additional water facilities in form of tubewells, underground storage sumps and overhead tanks will also be required.

Important Issues

- (i) No construction is possible in Nallah affected area currently and also underneath 66 KV overhead HT line.
- (ii) Better quality of 24 x 7 power to sustain round the clock requirement of research activities.
- (iii) Land adjoining Nallah to be reclaimed.
- (iv) Dispensary of the campus needs to be upgraded to a 10 beds hospital to cater for the requirement of about 1500 strength residing inside the campus.
- (v) Measures proposed to Improve Performance
 - (i) Retaining wall along the banks of Nallah can be considered. It will help in reclaiming the un-utilised land adjoining Nallah.
 - (ii) Roof tops of Research blocks/Hostels can be utilised for solar power generation.
 - (iii) HT line affected area can be planned to be made useful for construction by replacing it with UGC cables in collaboration with Punjab State Power Corporation Ltd. (PSPCL).
 - (iv) Civil Work Action Plan to be adhered strictly for timely creation of infrastructure.

(v) To help maintain a high water table, a comprehensive Rain Water Harvesting project to recharge the ground water can be considered.

9(ii). Land Development. NIPER Mohali has a beautiful campus that caters for research facilities for ten different fields, three boys hostels and a girls hostel, one married hostel unit, 133 quarters for the NIPER staff (ranging from Type II to Type VI).

The campus has a set up of internal roads and bridges that link two portions of the campus on either sides of a Nallah. Besides, for academic & Research purposes & for recreational purposes, the institute has a full fledged Natural Products Field lab with medicinal plant nursery and drug garden. A central park exists at the main entrance of the Institute to give it an aesthetic touch. Besides there is a Swimming Pool, Convention Centre, Community Centre, well stocked Library, a Pharmaceutical Heritage Centre, National Bio-availability Centre, MBA building, an Engineering Deptt., Centre for Infectious diseases, Technology Development Centre, Central Animal Facility, a Dosage Plant without pharma machinery and with some pending finishing works, adequate water supply & storage facilities, 11 KV electric power, Sub Station, Central Stores Services, an Administrative Bhawan, a main Secretariate building, a café teria and some minor out door sports facilities.

Issues

- (i) To make the Dosage Plant functional, main core pharma machinery needs to be procured and finishing touches to the building provided to suit their installation and functioning.
- (ii) The boundary wall has many gaps which need to be plugged especially over Nallah.
- (iii) There is a huge demand of refrigerated water supply for research purposes.
- (iv) Electric installation is of 1996 vintage and so are other associated equipments.
- (v) Requirement of a borewell due to increased strength of inhabitants.
- (vi) A need for R&D facility to carry out research and to undertake high end specialised research in future is a necessity.
- (vii) Additional Lecture Halls construction to meet the increased requirements of students.
- (viii) A need to create a sports complex to meet the health soundness and well being of the students and staff on campus.

Measures Proposed to Improve Performance.

- (i) Creation of a sports complex with a 400 metres track and Badminton, Basket ball, Volleyball, Lawn Tennis facilities.
- (ii) Work to meet increased requirement of Lecture Halls has been projected.
- (iii) Electric Installations and Telephone Exchange need to be upgraded.
- (iv) A model R&D facility to cater for the research requirement of the students needs to be created.
- (v) Centralised refrigeration facility needs to be created for the teaching and research blocks to meet the requirement 24 x 7.
- (vi) The Dosage Plant needs to be made fully functional with requisite machinery.

9 . (iii) Civil Works Progress : NIPER, S.A.S NAGAR

Sl No	Name of Work	Contractor's Name	Work Order No. and Date	Contract's Amount	Total payment paid till date	Remarks
1	Construction of Dosage form scale up (facility) at NIPER S.A.S Nagar	M/S Gautam Builders	F.3-2(27)/09/ LOI/ 25 dated 11.06.09	26557525.00	26516834.00	Work completed.
2	S/I/T/C of HVAC & Control (BAS) system	M/S Fedders Lloyd Corpn Ltd	F.3-2(27)/10/ LOI/ 08 dated 09 Jul 10	15969232.00	15024077.64	Final bill yet to be raised by the Agency.
3	P/F/I/C/T of Mechanical, Piping & Insulation works	M/S Kalyan Projects Construction Co.	F.3-2(27)/10/ LOI/ 06 dated 03.07.10	1492989.00	1218035.00	Work completed.
4	Electrical work for Dosage form scale up (facility) at NIPER S.A.S Nagar	M/S Bharat Electricals	F.3-2(27)/09/LOI/ 60 dated 15.01.10	6732040.00	6721737.00	-do-
5	Construction of residential unit Type-IV (12 Nos) at NIPER.	M/S Balaji Associates.	F.3-2(27)/08/LOI/ 57 dated 01 Jan 2009	15030280.00	13536460.00	-do-
6	Construction of residential unit Type-V (05 Nos) Multistorey at NIPER.	M/S Balaji Associates.	F.3-2(27)/08/LOI/ 58 dated 01 Jan 2009	9899994.00	9899994.00	Final bill pending.

7	Premix Carpeting of internal roads of Type-II, III, IV & V houses at NIPER	M/S Kamal Jeet Verma & Co.	F.3- 2(27)/13/LOI/ 12 dated 05 Jul 2013	1314500.00 + 60,000/- (extra approval)	1128566.00	Work completed. Final Bill is still awaited from the Agency.
8	Project Management Consultancy Services by BSNL	M/S BSNL	PMC services by BSNL	120001594.00	117091214.00	Amount includes PMC charges & Service Tax. After releasing the amount of 32RA bill i.e. 973729.00. Balance payment is Rs. 19,36,651.00. Bill from BSNL not received.
12	Extension of Girls Hostel at NIPER, S.A.S Nagar	M/S Sohan Lal Mehta,	F.3- 2(27)/13/LOI/ 20 dated 05 Sep 2013	23509814.00	22038278.00	Work completed. Final Bill is still awaited from the Agency.
13	Fabrication and Supply of Hostel Furniture for extension of Girls Hostel at NIPER.	M/S Mega Furniture Gallery	F.3- 2(27)/14/LOI /28 dated 20 Oct 2014	707520.00	707520.00	Final bill paid.

9. (iv) Action Plan with timelines for Developing Infrastructure with responsible Officer/ DoP

i). Engineering Services : Creation of Civil Infrastructure

S. No.	Description of works	Rough Cost Estimate (In Crore)	Priority	
A. Infrastructure (12th Five Year Plan)				
1.	Extension of existing 6 storey 100 seater Boys Hostel.	7.33	II	
2.	Construction of Lecture Hall.	6.01	I	
3.	Extension of Animal House.	2.76	I	
4.	Strengthening of Security Wall and fencing around NIPER.	0.17	I	
5.	Re-carpeting of internal roads.	1.92	I	
6.	Solar Water Heating System for new Hostels.	0.24	I	
7.	Segregation of Institute and Residential Blocks.	0.26	II	
8.	Development of Sports Infrastructure.	2.04	I	
9.	Boring and Installation of Deep Tube well.	0.64	I	
10.	Drainage System for Rain Water along the Road where required in the premises at NIPER.	0.21	III	
11.	Construction of Store Yard for Engg. Store rear side of Engg. Section at NIPER.	0.13	II	
12.	Rain Water Harvesting at NIPER	1.29	II	
13.	Construction of Sewage Treatment Plant for 75000 litres capacity.	0.55	III	
14.	Extension of Existing Girls Hostel	3.31	I	
15.	Wire gauge doors and windows shutters for New Boys Hostel.	0.11	I	
16.	Setting up of Dosage Form Pilot Plant (remaining work)	1.00	I	
17.	SITC of 02 Nos 08 passengers lifts for 6 storeyed Boys Hostel.	0.47	I	
18.	Construction of Research and Development Laboratory Block.	65.13	II	Refer page 209
19.	Construction of Incubator facilities.	10.83	III	Refer page 209

	Total (A)	104.40		
B.	Maintenance Budget 2016-17	4.57	I	Refer page 162
	Grand Total (A) + (B)	108.97		

Note:

1. Out of total Rs. 108.97 crore mentioned above, provision of Rs. 28.45 cr is made for items at Sl. No. 1 to 17 and 'B' above ie for develop ment of Civil Infrastructure. Detail of works is attached as per Annexure 1 attached to this point, as is made in the approved SFC II document item no. B3.
2. For Sl. No. 18 provision of Rs 64.99 Crore is made against total of Rs 65.13 crore for the FY 2015-16 as is made in the approved SFC II document item no. B5 .
3. For Sl. No. 19 provision of Rs. 9.60 cr is made against total of Rs 10.83 crore for the FY 2015-16 as is made in the approved SFC II document item no. B6.

ii). Engineering services: air conditioning, electrical, mechanical and telecommunication

S. No.	Description of works	Rough Cost Estimate (In lakh)
(A) Air Conditioning Works		
1.	Augmentation of Air Conditioning Plant.	164.28
2.	Modification of Existing suction & discharge distribution system	26.00
3.	P/I of Split AC in Board/Conference Room.	2.00
4.	Installation of water pumping system for main water supply including electrical and pump house.	7.75
		200.03 Lacs

(B) Up gradation of Electrical Installation		
1.	Up gradation and replacement of LT Panel in sub station	111.12
2.	Installation of 1000 KVA Silent DG Set – 01 No	133.61
3.	Solar based Plant (1 x 100KWP)	150.00
	Total Electrical Installation -	394.73 Lacs
(C) Telecommunication		
1.	Upgradation of Siemens EPABX	46.71 Lacs
(D) Augmentation of Mechanical Works/ Installations		
Utility Section		
1.	Replacement of DM Water Plant. Upgradation of soft water plant. Centralised treated water (DM, Soft, R.O.)	52.50

2.	Compressor along with related accessories. Replacement of Centralised Industrial type vacuum pumping facility for upgradation.	20.00
3.	New Utility Services pipelines with frame work including expansion of existing trenches for pipelines. Sheet Metal covers for the trenches.	17.76
	Sheds	
4	P/F of sheds for utility pumping area, diesel storage area, workshop machinery & Diesel storage tanks with pumping system	20.00
5	Purchase of vehicle for loading, transfer of materials, equipments, diesel etc and portable lifts for manpower to work on outer surface of building/ high electrical lightening.	12.50
6.	Creation of centralised common refrigeration facility located near to research blocks.	30.48
	(D)	153.24Lacs
	Total (C) + (D)	199.95 Lacs

Total (A+B+C+D) = (200.93+394.73+46.71+153.24)= Rs 795.61 Lacs

Issues & Measures Proposed to Improve Performance

Creation of Civil Infrastructure as projected in XII Five Year Plan is pending in totality.

9(v). Equipment

NIPER, being a research & educational hub is equipment heavy and much of its equipment is procured to meet the basic requirements of research. This is being procured through respective faculties. Besides, a lot of equipment is deployed to provide quality services in form of telecom facilities, power back up, air-conditioning, mobility and repair equipment.

Issues:

- Generators. NIPER has 2 x 500 KVA generators and 1 x 320 KVA generator. The connected load and requirement has increased. The vintage equipment requires replacement to meet 24 x 7 research requirement of students that need a 100% power back up.
- Telephone Exchange. The existing is of Siemen's Make of 1996 vintage with 256 analogue extensions. The telephone connections are at an increased demand and this exchange needs to be upgraded urgently with state of the art facilities.
- Central Common Refrigeration. To meet the un-avoidable research requirement of the student, there is a need for refrigeration round the clock centrally.
- Vehicle for Engineering Staff. To meet day to day petty repair requirement of the Engineering Deptt, there is a requirement of a permanent vehicles with Engineering Deptt. At present, there is no holding.
- Repair Equipment. For high rise buildings repair & maintenance requirement there is a requirement of portable lifts.

Measures Proposed to Improve Performance

All the deficiency of equipment enumerated above needs to be made up for providing efficient engineering services to the research & all inhabitants of NIPER.

10. Infrastructure: Central facilities/ Centres etc.

a.) List of centres:

- Central Instruments Laboratory
- Center for Pharmaceutical Nanotechnology
- Computer Center
- National Toxicology Center
- Library and Information Center
- Technology Development Center
- Central Animal Facility
- Impurity Profiling and Stability Testing Laboratory
- National Bioavailability Center
- Pharmacological and Toxicological Screening Facility
- National Center for Safety Pharmacology, etc.

b.) Issues in each of the above items and measures proposed to improve performance

1. Central Instruments Laboratory

The central instrumentation laboratories are equipped with major instruments like 400 MHz NMR, 300 MHz NMR, GC-MSⁿ, GCMS, Head Space GC, LC-MSⁿ, Powder XRD, MALDI TOF-TOF MS, FTIR with ATR & microscope, UV-VIS spectrophotometers, CHNS-Elemental analyzer, Polarimeter, Circular Dichroism, Atomic Absorption Spectrophotometer, Analytical and preparative HPLC systems, DSC, TGA, Spectrofluorimeter, Capillary Electrophoresis, Lyophilizer and Ultra Centrifuge, etc.

Each department also has a separate specialized instrument laboratory to fulfil individual departmental needs based on the research programs, which includes high and normal pressure multiple organic synthesizer, peptide synthesizer, gel permeable chromatography, hydrogenation reactors, photoreactor, microwaves reactor, GC and HPLC systems, protein purification system, HPTLC, MPLC, spray dryer, lyophilizer, polygraph, stimulator, auto analyser, blood cell counter, tissue processor and embedding set-up, freeze microtome, spheronizer & extruder, Glatt multi-purpose coater, Neocota, inverted and upright microscopes, humidity and thermostatic chambers, automated dissolution apparatus, laser particle size analyzer, incubator shaker, electrophoresis and immunoblot apparatus, gel dryer, imaging densitometer, microelectroeluter, stirred cell microconcentrator, steritest system, scintillation counters, rotapress, fluidized bed dryer, capsule filling machine, strip packing machine, ampoule/vial washing and filling machines, tube filling machine, sparkler filter, multimill and colloid mill.

All these facilities are made available to the pharmaceutical industry as per conditions displayed on the Institute website.

2. Supercritical Fluid Extraction (SCFE) Facility

SCFE is an environmental friendly approach for extraction of natural products/herbals. The ever increasing strict environmental regulations for use of common industrial solvents, most of which are hazardous to human health, have led to the popularity and growth of SCFE technologies employing supercritical CO₂ as a solvent (has accepted status as GRAS). Sophisticated SCFE instrumentation allows precise regulation of changes in temperature and pressure and thus

manipulating solvating property of SCF which helps the extraction of natural products of wide polarities. Natural Products Field Laboratory, Department of Natural Products, at the institute is equipped with following two SCFE systems

1. SCFE Lab Scale
2. SCFE Pilot Scale

3. Computer Centre

The Computer Centre caters to the needs of faculty, staff and students for their research and teaching. Computer Centre manages and administers high performance computing, named as [PharmaGrid](#). This facility created at NIPER, S.A.S. Nagar is the central facility to establish a nationwide grid for carrying out pharmaceutical research with cutting edge technology. In the first phase, high performance computing facility was created with 192 cores cluster on linux, 64 cores cluster on windows platform and two 16 cores SMP servers. The aggregate compute power of the facility is 3.56 Tflops and the data storage capacity is over 15 Terabytes. The facility will work on all the major aspects of bioinformatics and chemoinformatics viz. genome analysis, sequence analysis, protein structure prediction, QSAR, molecular modeling, molecular dynamics and quantum chemical analysis. To facilitate these, various commercial and free software are available like Discovery studio, pipeline pilot, Amber, CPMD, Gaussian, GROMACS, NAMD, MATLAB, StarDrop, VASP, RDBMS (SQL server, Oracle) and Compilers (C, C++, , VC++, Visual Basic, Visual Java, FORTRAN etc.).

In addition to the HPC, Computer Centre has a general purpose computational lab with more than 60 high-end desktops. The various software available are ChemOffice, Pallas, SPSS, Sigmastat, Sigmaplot, Endnote, Acrobat Suit most of the popular Microsoft products like Office 2007/2003/XP/2000, Visual studio, SQL server etc.

Computer Centre also manages and administers other services such as Electronic Information Retrieval System, DTP and helps the Institute community by managing computing resources which are available centrally or in various departments.

A campus-wide gigabit-ethernet local area network (LAN), which uses fiber optic media, makes computing services available across campus. Centre is also equipped with 6 Mbps dedicated internet connectivity allowing users to have access to the email, Internet, SciFinder and ScienceDirect. Faculty and students can use internet, email and computing resources of the Institute from their residences/hostels by dialing through a modem or using the ADSL routers.

The Centre houses eight servers and several computer systems manufactured by IBM/Dell/Compaq/Acer. Computer Centre also supports high speed, network color laser printer, black & white laser printers, color plotter and scanners.

NIPER has subscribed SciFinder and Scientific and Technical Information Network (STN), a leading and comprehensive scientific online information service, giving access to over 200 scientific and technical databases of chemistry, pharmaceutical sciences and biotechnology. STN service has been extended to the outside of NIPER on payment.

The Computer Centre has developed few databases and customized software for various applications.

4. Library and Information Centre

The foundation Stone of NIPER library was laid on 24th July 1992 and by 1995 the library started functioning. The library at NIPER started in a manner that it can eventually gain the status of National Library and Information Centre in the Pharmaceutical Sciences.

The library is accessible to all pharmacy professionals from the country and abroad and provides information to the academia, researchers and the industry personnel.

The Library is housed in a *four* floored building.

Ground Floor : Acquisition & Circulation Section, Current Journals Section, Raj Bhasha collection - Collection in Hindi Language, Computer systems for Users, Lounge area for reading newspapers and magazines

First Floor: Reference Section, User System for Online access to Library Catalogue, Book Section, Documentation Unit, Bound Journals (L to W), Newspaper Archive.

Second Floor : Bound Journals (A to J)

Third Floor : Chemical Abstracts, Thesis & Dissertation Section, Committee Hall

Library Collection

The library comprises of specialized collection of books on pharmaceutical sciences, pharmaceutical market reports, theses & dissertations, newspapers, etc. The library subscribes to 82 international and national print journals in the field of pharmaceutical and allied sciences for research scholars.

Books	7565
Hindi Books	1708
<u>Current Subscribed Journals (List)</u>	82
Bound Volumes of Journals	19,190
E-Journals	335
Thesis & Dissertations	2065
CD-ROMs	266

Hindi Collection

NIPER Library has built up a good collection of books in Hindi. It covers literature like Technical glossaries, Biographies, Jnanpith literature, translated version of famous works, etc. To promote the use of Rajbhasha Hindi, the library offers borrowing facility of two Hindi Books to all its members apart from their entitlement.

E-resources:

Science Direct

Library started subscription to Science Direct full text e-journals in the year 2000. Currently it has around 209 journals on its subscription list from Pharmacology and Chemistry sections.

Link: <http://www.sciencedirect.com/science/journals/>

Drugdex

Library has single user license of Drugdex online database. One can search drugdex database by logging into user id and password. It is the most comprehensive drug resource with fully referenced, unbiased content covering global trade names, dosage, pharmacokinetics, cautions, interactions, comparative efficacy, labelled and off-label indications, and clinical applications. DRUGDEX spans global FDA- and EMA-approved, as well as non-prescription preparations, and includes drug summary information.

Link: <http://www.micromedexsolutions.com/>

Lexi-Comp

Online Database for reference on drugs & diseases

Link: <http://online.lexi.com/lco/action/eula/show>

Emerald Database

Library subscribes to the following subject collections from Emerald.

1. Accounting Finance & Economics e Journal Collection
2. Business Management & Strategy e Journal Collection
3. Marketing e Journal Collection
4. Public Policy and Environmental Management e Journal Collection

Link: <http://www.emeraldgrouppublishing.com/products/journals/index.htm>

CD-ROM Databases

Facility of database search service from CD-ROMs is made available to students in library. 266 CD-ROMs cover different subject areas such as Pharmacology, Chemistry, Management, IPR, etc.

Library Services

Online Public Access Catalogue (OPAC)

Link: <http://192.168.14.101:8080/jopacv06/html/SearchForm>

The OPAC provides accessibility to bibliographic databases where users can find specific information online. The OPAC system includes a word-based search facility using Boolean operators ('OR', 'AND' and 'AND NOT') that can narrow down a search to meet very specific needs. The search is also facilitated by using truncation and parentheses. Users can perform search through title, author, subject/keyword, call number, publisher and place. Users can find additional information from OPAC, which are:

- Periodic list of new additions to the library.
- Documents checked out to members.
- Reserve documents that are currently in circulation.
- Online information on holdings of current journals including recent issues received.

WebOPAC

Web OPAC is a powerful search engine for finding any cataloguing information from library database on-line.

Link: <http://192.168.14.101:8080/jopacgwt>

A **dedicated system** has also been provided in the Library (first floor) for accessing the Catalogue through Libsys OPAC.

Additional Information Services:

- Lending Service
- Reference Service
- Document Delivery Service
- Reprographic Service
- Binding Facility
- Newspaper Clipping Service
- Resource sharing / Inter Library Loan

6. Central Animal Facility National Institute of Pharmaceutical Education and Research (NIPER) is the first national level institute in pharmaceutical sciences set up under the aegis of Ministry of Chemicals and Fertilizers, Govt. of India.

The Central Animal Facility (CAF), NIPER is established with the state-of-art technology in a double storied building with a design of 'Two-way corridor system' to minimize the cross contamination. Our establishment is registered with CPCSEA, Ministry of Environment and Forest, Government of India (108/1999/CPCSEA) for the breeding and research purpose. The different species of small laboratory animals like mice, rats, hamsters, gerbils, guinea pigs and rabbits are being bred in-house and maintained mainly to cater the needs of investigators for the various research purposes within the institute. Under certain circumstances of surplus availability, the animals are also supplied on request to the outside CPCSEA registered establishments at reasonable rates on non-profit basis purely for the breeding and research purposes only.

Each species of animals is housed in barrier maintained individual rooms to avoid inter-species cross infection. The animals are maintained under controlled environmental conditions (temperature ($22 \pm 2^\circ\text{C}$), relative humidity ($50 \pm 5\%$), 12:12 h light and dark cycle with 100 % of fresh air exchange in animal rooms) with uninterrupted power supply. The macro- and micro- environment around the animals are maintained as per the CPCSEA guidelines. Separate building for holding of infective and non-infective experimental animals is available. A high degree of hygienic conditions is being maintained. Regular disinfection of animal rooms and cleaning and sterilization of cages, water bottles, bedding etc are practiced. Heavy duty steam sterilizers have been provided for sterilization of all materials entering into animals rooms. In addition to the conventionally maintained colonies, CAF do have the animal isolator and individually ventilated caging systems (IVC) for breeding and maintaining the animal colonies in SPF environment.

Periodic health monitoring of the animals is carried out to ascertain the health status of the animals. In addition, feed and water analysis are carried out periodically for assessing their quality and microbiological contamination. The various records of the inbred and out bred animals are maintained through in-house developed specialized software system (CAFMS) in addition to manual record keeping. Waste disposal is carried out through environment friendly incinerator. A team of well qualified veterinarian/scientist and technical assistants, who are experienced and trained in modern methods of animal care, breeding and husbandry, manage this facility. The routine works at CAF are carried out as per the standard operating procedures adopting GLP principles to achieve the high quality supply of the animals for the biomedical/pharma.

7. National Bioavailability Centre

The National Bioavailability Centre of the Institute is capable of conducting bioequivalence studies in healthy human volunteers. The centre has 24 bedded air conditioned volunteer room, a dining hall with attached kitchen, doctor's room, two sample collection rooms and a sample processing room. It has analytical laboratory equipped with sophisticated equipments required to carry out the *in vitro* and *in vivo* analysis of samples. Already many industrial projects have been completed and many more are planned. The centre has been accredited by WHO and is one of the two centres in the world for conducting bioequivalence studies of the fixed dose combination (FDC) formulations of antitubercular drugs. The centre, in close collaboration with hospitals around Chandigarh, is also involved in conducting pharmacokinetic studies in patient population.

8. Technology Development Centre

NIPER undertakes sponsored projects for the development of economically viable processes for bulk pharmaceutical chemicals of synthetic or natural products origin, conventional and novel dosage forms.

9. Pharmacological and Toxicological Screening Facility

The Institute can carry out:

- Pharmacological screening of NCE's
- Safety pharmacology
- *in vivo* Mutagenicity
- *in vitro* Cell proliferation and cytotoxicity
- Radio-receptor binding assays and
- Regulatory toxicological testing viz, acute and subchronic toxicity testing.

10. Computer Aided Drug Design Laboratory

The Computer Aided Drug Design Laboratory of the Institute has Silicone Graphics Octane and Silicone Graphics Fuel main frame computers with various molecular modeling packages such as SYBYL, PC SPARTAN PRO, CHEM-X, AMBER, Gaussain 98, Protein Data Bank, and Alchemy etc. The objective of this laboratory is to rationally design new chemical entities for various therapeutic areas. The laboratory also imparts training in molecular modeling to scientist, research students from other universities/Institutes.

11. Peptide Synthesis and Research Laboratory

NIPER has recently created state-of-the-art solid phase peptide synthesis facility. The peptide synthesis is carried out on a fully automated CSBIO-136 peptide synthesizer by a team consisting of expert peptide chemists. The facility is capable of synthesizing up to 12 amino acids containing peptide in 24 hours by using both t-Boc

and Fmoc peptide synthesis protocols. Institute is open to inquiries related to custom peptide synthesis from various pharmaceutical companies, research institutes and agencies interested in peptides for research.

2. Combichem Research Laboratory

The Institute has recently created a Combichem Research Laboratory. The fully automated Multiple Organic Synthesiser with on-line analytical facility will enable high speed solution and solid phase synthesis of libraries of molecules. The multiple vessel reaction platforms make the synthesis feasible under various conditions such as low temperature (up to -80°C), high temperature (up to 200°C), and high pressure. Apart from its own research needs, the Institute makes this facility open for custom synthesis of small molecule libraries and training researchers from pharmaceutical companies and other institutions/organisation.

b. Issues:

1. In some cases instruments have outlived their life and needs replacement
2. Updation of computer facility is urgently required as systems installed at different location are old and require replacement.
3. Shortage of funds hampers the enrichment of library, renewal of journals, databases, etc.

12. Academia-Inter Ministerial convergence with

CSIR/DST/DBT/ICMR/ICAR and other Government Institutions.

1. Issues in each of the above items and measures proposed to improve performance

NIPER, S.A.S. Nagar, is a participating member of Chandigarh Region Innovation and Knowledge Cluster (**CRIKC**), which is a cluster of institutions in the region of Chandigarh which have come together to promote and sustain excellence in research.

The faculty of the Institute has been regularly awarded with competitive research grants from all national funding agencies. No major issues have been faced except delay in release of sanctioned funds at times.

13. Academia-Industry partnership

- i. Academia-Industrial linkage- MOUs on specific disease/ problem area.
- ii. Capacity utilization of Common facilities viz., Technology Development Centre/ SMPIC/National Bio-availability Centre etc.
- iii. Consultancy projects/Knowledge Process Outsourcing (KPO)/Contract Research Organisation (CRO)/ Contract Research & Manufacturing Services (CRAM)/ IPRs etc.
- iv. Entrepreneurship / Incubators
- v. Issues in each of the above items and measures proposed to improve performance

i. Academia-Industrial linkage:

Information provided on pg. 21. Information about technologies which have been licensed out to industries is provided in pg. 22.

ii. Capacity utilization of Common facilities, viz. Technology Development Centre/ SMPIC/National Bio-availability Centre etc.

National Bioavailability Centre

1. The centre has been inspected by team of DCGI New Delhi for its renewal of the approval to conduct the BA/BE study. Inspection was meticulous enough and inspectors have appreciated the facility and remarked positive. Finally we got the renewal of the approval on 25th Feb, 2015.
2. Now we have initiated to contact the generic formulation industry for the study.

Technology Development Centre

NIPER has set up a state of the art pilot plant facility to cater needs for advanced studies and to support strong API and Herbal generic India pharma role by offering the facility to SME industry. This facility has been utilized for various projects having wider reach.

SMPIC

- SMPIC aims at creating commercial synergy between industry and academia and also furthering the spirit of co-operation between NIPER and Small and Medium Pharmaceutical Industries (SMPs).
- In view of above, SMPIC organizes seminars / workshops on GLP and GMP and allied topics for Small and medium Pharmaceutical Enterprises. Eminent personalities from academia and industry are invited to deliver lectures to educate industry personnel, regulatory staff and students.
- SMPIC also conducts regular week long practical trainings on analytical instruments throughout the year to build a pool of trained science and pharmacy graduates in the state of the art instrumentation facilities and regulatory requirements.
- Upgrading of existing HPLC system with the addition of an autosampler for an advanced new module
- Both the HPLC systems at SMPIC are equipped with the manual injectors. We plan to introduce an advanced module on HPLC training, one of these can be upgraded with installation of an autosampler.
- To increase the membership of registered pharma SMEs with SMPIC: Measures can be taken to enhance the membership by creating a separate SMPIC website to facilitate an easy approach to maximum number of SME units in the country.

iii. Consultancy projects/Knowledge Process Outsourcing (KPO)/Contract Research Organisation (CRO)/ Contract Research & Manufacturing Services (CRAM)/ IPRs etc. for FY 2014-15&FY 2015-16 Till 29.02.2016.

List of consultancy projects in FY 2014-15&FY 2015-16 Till 29.02.2016.

S. No.	Consultancy No.	Title	Principal Investigator	Sponsor	Amount (Rs)
1	GC-14-01	Repeated dose toxicity studies for five compounds under GLP conditions	Prof. K. B. Tikoo	Dr. Shruti Ralegaonkar, Representative of Sustainability Support Services, C/o Unique Chemicals and Allied Products, Nagpur	36,65,745
2	GC-14-03	Surface tension analysis of Cyclosporine samples	Dr A K Bansal	M/s Famy Care Ltd.	24,000
3	GC-14-04	Particle Size Determination of API in Mefipristone tablets	Dr A K Bansal	M/s CIPLA	40,000
4	GC-14-05	Particle Size Determination of API in Capsules	Dr A K Bansal	M/s Genovo Development Services Ltd.	80,000
5	GC-14-06	Particle Size Determination of API in Praziquantel Tablets	Dr A K Bansal	M/s Chemo Laboratrios Liconsa S.A., Spain.	1,17,115
6	GC-14-07	Particle Size Determination of API in Abiraterone Acetate Tablets	Dr A K Bansal	M/s Chemo Laboratrios Liconsa S.A., Spain.	58,922
7	GC-14-08	Particle Size Determination of API in Tadalafil Tablets	Dr A K Bansal	M/s Torrent Pharmaceuticals Limited, Gandhinagar	40,944
8	GC-14-09	Particle Size Determination of API in Silodosin Capsules	Dr A K Bansal	M/s Torrent Pharmaceuticals Limited, Gandhinagar	1,00,000
9	GC-14-10	Quantification of Tyloxapol in Brinzolamide Ophthalmic Suspension samples	Dr A K Bansal	M/s Simson Pharma, Mumbai	60,000
10	GC-14-11	Reverse Engineering of Moxifloxacin Formulation	Dr A K Bansal	M/s Orbicular Pharmaceutical Technologies Pvt. Ltd.	50,000
11	GC-14-12	Particle Size Determination Of Efavirenz API Samples	Dr A K Bansal	M/s Getz Pharma Research Pvt Ltd, Mumbai.	10,000
12	GC-14-13	Characterization of MPA Injectable suspensions	Dr A K Bansal	M/s Famy Care Ltd.	24,000
13	GC-14-14	Particle Size Determination of API in Tablets	Dr A K Bansal	M/s Genovo Development Services Ltd.	80,000

14	GC-14-15	Particle Size Distribution of API in Thalidomide Capsules	Dr A K Bansal	M/s Natco Pharma Limited, Hyderabad	80,000
15	GC-14-16	Characterization of API using Goniometry.	Dr A K Bansal	M/s Dr. Reddy's Laboratories Ltd.	1,00,000
16	GC-14-17	Particle Size Distribution of API in Tablets	Dr A K Bansal	M/s Fresenius Kabi Oncology Ltd., Gurgaon	40,450
17	GC-14-18	Determination of prosioty of vaginal rings	Dr A K Bansal	M/s Labororios Leon Farma, Spain	1,71,837
18	GC-14-19	Particle Size Determination of API in Etoricoxib Tablets	Dr A K Bansal	M/s CIPLA, MUMBAI	40,000
19	GC-14-20	Particle Size Distribution of API in Albendazole Tablets	Dr A K Bansal	M/s Getz Pharma Research, Mumbai	40,000
20	GC-14-21	Characterization of MPA injectable suspension	Dr A K Bansal	M/s Famy Care Ltd.	Not Executed
21	GC-14-22	Particle Size Distribution of API in Mesalamine formulations	Dr A K Bansal	M/s IPCA Laboratories Ltd., Mumbai	1,75,000
22	GC-14-23	Assessment of vascular pain with propofol formulations in rats	Dr. S. S. Sharma	M/s M/s Troikaa Pharmaceutical Ltd.	-
23	GC-14-24	Particle Size Distribution of API Glyburide Tablets	Dr A K Bansal	M/s Ajanta Pharma Limited, Mumbai	80,000
24	GC-14-25	Process Development for the Final step of Levosulpiride Synthesis	Dr. M. S. Gill	M/s kimia Bio Sciences Pvt Ltd.	20,000
25	GC-14-26	Scale Up and Validation of Amine-N-OXODE BATCHES	Dr. M. S. Gill	M/s Celeste Life Sciences Pvt. Ltd	1,10,000
26	GC-14-27	Lab Scale Process Development Studies for Processing of Polymeric Material	Dr. M. S. Gill	Veekay Polycoats Ltd. (New Delhi)	Payment Awaited
27	GC-14-28	Process R&D and Scale-up on Kilogram Scale of Compound-3-HM5384CV	Dr. M. S. Gill	M/s Celeste Life Sciences Pvt. Ltd	1,20,604
28	GC-14-29	Wettability analysis of Ticagrelor API samples	Dr A K Bansal	M/s Dr Reddy's Laboratories Ltd.	26,613
29	GC-14-30	De-formulation and product benchmarking of innovator product and comparison with in-house product	Dr A K Bansal	M/s Natco Pharma Ltd., Hyderabad	2,30,000
30	GC-14-31	Identification, isolation and characterization of particle size of API in dosage form using hot stage microscopy	Dr A K Bansal	M/s S. Zhaveri Pharmachem Pvt. Ltd.	45,000
31	GC-14-32	Wettability Assessment of Rivaroxaban API samples	Dr A K Bansal	M/s Dr. Reddy's Laboratories Ltd.	19,960.20
32	GC-14-33	Method Development and Quantitative Analysis of Poloxomer-188 and Meglumine in Formulations	Dr A K Bansal	M/s Watson Pharma Pvt. Ltd., Ambarnath	2,04,720
33	GC-14-34	Method Development and Quantitative Analysis of Poloxomer-407 in Formulation	Dr A K Bansal	M/s Simson Pharma Services, Mumbai	65,000
34	GC-14-35	Identification, isolation and Analysis of Particle Size of Febuxostat in	Dr A K Bansal	M/s S. Celogen Lifescience &	40,000

		Adenuric Tablets		Technologies Pvt. Ltd.	
35	GC-14-36	Lab Scale Process Development for Cilnidipine	Dr. M. S. Gill	M/s Kimia Biosciences Pvt. Ltd.	20,000
36	GC-14-37	Scale up and Validation of AMINE TO N-OXIDE	Dr. M. S. Gill	M/s Celeste Life Sciences Pvt. Ltd.	2,20,000
37	GC-14-38	Lab Scale Process Development for 2-Amino Methyl-1-Ethyl Pyrrolidine	Dr. M. S. Gill	Kimia Biosciences Pvt. Ltd., New Delhi, India	Not Executed
38	GC-14-39	Lab scale synthesis of Oxaceprol	Dr. M. S. Gill	Kimia Biosciences Pvt. Ltd., New Delhi, India	20,000
39	GC-14-40	Pilot Studies involving Hydrogenation of an Intermediate	Dr. M. S. Gill	Kimia Biosciences Pvt. Ltd., New Delhi, India	Not Executed
40	GC-14-41	Solid State Characterization and Particle Size analysis of Innovator and In-house Formulations of Metaxalone	Dr A K Bansal	M/s Alembic Research Center, Vadodara (Gujarat)	1,02,360
41	GC-14-42	Surface area analysis of Magnesium stearate samples	Dr A K Bansal	M/s Genovo Development Services Ltd.	19,500
42	GC-14-43	Quantitative analysis of Povidone K30 in Ophthalmic solution	Dr A K Bansal	M/s Orbicular Pharmaceutical Technologies Pvt. Ltd.	10,000
43	GC-14-44	Solubilization of a NCE	Dr A K Bansal	M/s COLNRM, GVK Biosciences Pvt. Ltd.	75,000
44	GC-14-45	Scale up Batch of N-Oxide Intermediate	Dr. M. S. Gill	M/s Celeste Life Sciences Pvt. Ltd,	64,475
45	GC-14-46	Pilot Scale Drying Trials Using Nauta Dryer	Dr. M. S. Gill	M/s Cadila Pharmaceutical Ltd.,	20,000
46	GC-14-47	Pilot Scale Extraction of Natural Product	Dr. M. S. Gill	Individual/Anupam Jamwal, Himachal Pradesh, India	17,600
47	GC-14-48	Surface tension analysis of samples	Dr A K Bansal	M/s Famy Care Ltd.	16,000
48	GC-14-49	Assessment of Differential wetting kinetics of investigational drug with different solvents	Dr A K Bansal	M/s Johnson & Johnson Ltd., Mumbai	2,00,000
49	GC-14-50	Feasibility Report for Manufacturing of Mepacrine for Commercial Production	Prof. A. K. Chakraborti	M/s Sumeeth Lifesciences, Bangalore	22,250
50	GC-14-51	Development of an Injectable Formulation	Dr A K Bansal	M/s Windlas Healthcare Private Limited	3,65,170
51	GC-14-52	Particle size analysis of Deferasirox	Dr A K Bansal	M/s S. Zhaveri Pharmachem Pvt. Ltd.	10,527
52	GC-14-53	Particle size analysis of Efavirenz API samples	Dr A K Bansal	M/s Getz Pharma Research Private Limited, Mumbai	Payment Awaited

53	GC-14-54	Particle size and surface tension analysis of suspensions	Dr A K Bansal	M/s Famy Care Ltd.	91,800
54	GC-14-55	Identification, isolation and particle size analysis of Ranolazine in tablets	Dr A K Bansal	M/s Cipla Ltd., Mumbai	40,944
55	GC-14-56	Determination of Globule size in cream formulation	Dr A K Bansal	M/s Famy Care Ltd.	91,800
56	GC-14-57	Identification, isolation and Particle size analysis of API in Tablets	Dr A K Bansal	M/s Ajanta Pharma Limited, Mumbai	2,24,292
57	GC-14-58	Determination of Globule size in cream formulation	Dr A K Bansal	M/s Famy Care Ltd.	40,000
58	GC-14-59	Particle size analysis of otic suspension	Dr A K Bansal	M/s Famy Care Ltd.	27,000
59	GC-14-60	Identification, isolation and particle size analysis of Sofosbuvir in tablets	Dr A K Bansal	M/s Cipla Ltd., Mumbai	40,944
60	GC-14-61	Gap Analysis to "ascertain and determine by way of a study that the products listed in USP publications specifically USP-NF and USP-MC and/or the USP catalog and the pharmaceutical products such as drug products, drug substances, API's being currently manufactured and sold by Indian Pharmaceutical Companies in India	Prof. Anand Sharma	M/s United States Pharmacopeia – India Private Limited	8,00,000
61	GC-14-62	Hydrogenation of a Semi-synthetic Intermediate	Dr. M. S. Gill	Chemical Resources, Panchkula, India	20,000
62	GC-14-63	Pilot Studies involving Hydrogenation of an Intermediate	Dr. M. S. Gill	Chemical Resources, Panchkula, India	40,000
63	GC-14-64	Identification, isolation and Particle size analysis of Fenofibrate in capsules	Dr A K Bansal	M/s Ajanta Pharma Limited, Mumbai	89,888
64	GC-14-65	Identification, Isolation and Particle size analysis of API in Formulations	Dr A K Bansal	M/s Alembic Research Centre, Vadodara	2,10,000
65	GC-14-66	Identification, isolation and Particle size analysis of Clarithromycin in Innovator and Test tablets	Dr A K Bansal	M/s Ajanta Pharma Limited, Mumbai	63,652
66	GC-14-67	Identification, isolation and Particle size analysis of Clopidogrel bisulphate in Tablets	Dr A K Bansal	M/s Ajanta Pharma Limited, Mumbai	71,652
67	GC-14-68	Identification, isolation and Particle size analysis of API in Formulations	Dr A K Bansal	M/s Alembic Research Centre, Vadodara	71,652
68	GC-14-69	Testing of anti-diabetic formulation	Prof. K. B. Tikoo	Dr. Ronald W. Miller, Miller Pharmaceutical Technology Co.	17,36,577
69	GC-14-70	Identification of solid form and particle size evaluation of Ticagrelor in Innovator and test formulation	Dr A K Bansal	M/s Torrent Pharmaceuticals Limited, Gandhinagar	81,888
70	GC-14-71	Identification of solid form and particle size evaluation of Lacosamide in	Dr A K Bansal	M/s S. Zhaveri Pharmachem Pvt.	44,494

		Tablets		Ltd.	
71	GC-14-72	Identification of solid form and particle size evaluation of Apixaban	Dr A K Bansal	M/s Torrent Pharmaceuticals Limited	40,944
72	GC-14-73	Identification, isolation and Particle size analysis of Carbamazepine in Tablets	Dr A K Bansal	M/s Ajanta Pharma Limited, Mumbai	71,652
73	GC-14-74	Identification, isolation and Particle size analysis of Lamotrigine in Tablets	Dr A K Bansal	M/s Ajanta Pharma Limited, Mumbai	71,652
74	GC-14-76	Identification, isolation and Particle size analysis of Rabepazole in Tablets	Dr A K Bansal	M/s Ajanta Pharma Limited, Mumbai	71,652
75	GC-14-77	Identification, isolation and Particle size analysis of API in Tablets	Dr A K Bansal	M/s Glenmark-Generics	76,770
76	GC-14-78	Identification, isolation and Particle size analysis of Nimesulide in Tablets	Dr A K Bansal	M/s Ajanta Pharma Limited, Mumbai	35,826
77	GC-14-79	Characterization of Amiodarone Samples	Dr A K Bansal	M/s Glenmark-Generics	Payment Awaited
78	GC-14-80	Determination of Globule size in cream formulation	Dr A K Bansal	M/s Famy Care Ltd.	40,000
79	GC-14-81	Identification, isolation and Particle size analysis of Abiraterone acetate in Tablets	Dr A K Bansal	M/s Getz Pharma Research Pvt. Ltd., Mumbai	Payment Awaited
80	GC-14-82	Identification, isolation and Particle size analysis of Pioglitazone and Metformin in Innovator and Test Tablets	Dr A K Bansal	M/s Ajanta Pharma Limited, Mumbai	1,20,000
81	GC-14-83	Identification, isolation and Particle size analysis of Oxacarbazepine in Suspensions	Dr A K Bansal	M/s Aizant Drug Research Solutions Pvt. Ltd., Hyderabad	2,25,000
82	GC-14-84	Assessment of wetting kinetics of mebendazole with different probe liquids	Dr A K Bansal	M/s Johnson & Johnson, Mumbai	3,00,000
83	GC-14-85	Surface Area Analysis of Metoprolol succinate	Dr A K Bansal	M/s Intas Pharmaceuticals Ltd	7303
84	GC-14-86	Surface Area Analysis of Magnesium stearate	Dr A K Bansal	M/s Genovo Development Services, Bangalore	6500
85	GC-14-87	Surface Area Analysis and porosity analysis of samples	Dr A K Bansal	M/s Intas Pharmaceuticals Ltd	2,06,000
86	GC-14-88	Identification, Isolation and Analysis of Particle size of Salmeterol Xinafoate and Fluticasone Propionate in Test and Reference Product	Dr A K Bansal	M/s Glenmark Pharma	1,60,000
87	GC-14-89	Identification, isolation and particle size analysis of Tadalafil in Tablets	Dr A K Bansal	M/s Micro Advanced Research Centre, Bangalore	80,000

88	GC-14-90	Identification, isolation and particle size analysis of Carbamazepine in Tablets	Dr A K Bansal	M/s Genovo Development Services Ltd.	40,000
89	GC-14-91	Identification, isolation and particle size analysis of Ursodeoxycholic acid in Tablets	Dr A K Bansal	M/s Genovo Development Services Ltd	40,000
90	GC-14-92	In-vitro Adhesion – Comparative Performance of Buccal Tablets	Dr A K Bansal	M/s Watson Pharma	2,32,500
91	GC-14-93	Identification, isolation and particle size analysis of Albendazole in Tablets	Dr A K Bansal	M/s Cipla Ltd., Mumbai	Funds Awaited
92	GC-14-94	Identification, isolation and particle size analysis of Deferasirox in Tablets	Dr A K Bansal	M/s Cipla Ltd., Mumbai	40,944
93	TS-14-01	Morphology of Samples	Dr A K Bansal	M/s IPCA Laboratories Limited	14,330
94	AC-14-01	Advice on Solid state characterization of an API	Dr A K Bansal	M/s APL Research Centre (Aurobindo Pharma), AP	51,180
95	AC-14-02	Advice on Formulation Development of veterinary formulation	Dr A K Bansal	M/s Zoetis, Mumbai	92,124
96	GC-AKB-15-01	Identification of solid form and Particle size analysis of API in Reference and Test Tablet	Dr A K Bansal	M/s Perrigo Laboratories India Pvt. Ltd., Ambarnath	1,63,776
97	GC-AKB-15-02	In-vitro Adhesion – Comparative Performance of Buccal Tablets	Dr A K Bansal	M/s Watson Pharma	22,500
98	GC-AKB-15-03	Performance Evaluation of NCE Formulation	Dr A K Bansal	M/s Windlas Healthcare Private Limited	Funds Awaited
99	GC-AKB-15-04	Identification, Isolation and Analysis of Particle Size of Isotretinoin in Capsules	Dr A K Bansal	M/s Olive Healthcare, Mumbai	80,000
100	GC-AKB-15-05	Identification of solid form and particle size evaluation of Efavirenz in Sustiva tablets	Dr A K Bansal	M/s CIPLA Ltd.	40,944
101	GC-AKB-15-06	Identification of solid form and particle size evaluation of Dasatinib in Sprycel tablets	Dr A K Bansal	M/s CIPLA Ltd., Mumbai	40,000
102	GC-AKB-15-07	Formulation development and analysis of Alagard	Dr A K Bansal	M/s Alliance Formulations, Baddi	90,000
103	GC-AKB-15-08	Identification and Particle Size analysis of API in Reference formulations	Dr A K Bansal	M/s Fusion Scientific Laboratories Pvt. Ltd.	1,35,000
104	GC-AKB-15-09	Identification, isolation and Particle size analysis of Fenofibrate in capsules	Dr A K Bansal	M/s Ajanta Pharma Limited	70,000
105	GC-AKB-15-10	Surface Area analysis of samples	Dr A K Bansal	M/s Genovo Development Services Ltd.	19,500
106	GC-AKB-15-11	Identification, isolation and particle size analysis of Fexofenadine hydrochloride acid in Telfast Tablets	Dr A K Bansal	M/s Genovo Development Services Ltd.	40,944

107	GC-AKB-15-12	Identification, Isolation and Analysis of Particle Size of API in Test and Reference Product	Dr A K Bansal	M/s Glenmark Pharma	81,888
108	GC-AKB-15-13	Identification, isolation and particle size analysis of Candesartan in Amias Tablets	Dr A K Bansal	M/s Genovo Development Services Ltd.	40,944
109	GC-AKB-15-14	Surface Area Analysis of samples	Dr A K Bansal	M/s INTAS Pharmaceuticals Ltd. – Astron Division	24,566
110	GC-AKB-15-15	Characterization of Mesalamine Samples	Dr A K Bansal	M/s Dr. Reddy's Laboratories Ltd.	Funds Awaited
111	GC-AKB-15-16	Particle Size Analysis of API in Tablets	Dr A K Bansal	M/s Piramal Pharmaceuticals Development Services Pvt. Ltd	1,60,000
112	GC-AKB-15-17	Identification, isolation and particle size analysis of Carbamazepine in Tablets	Dr A K Bansal	M/s Genovo Development Services Ltd.	40,944
113	GC-AKB-15-18	Assessment of wetting kinetics of API with different probe liquids (Contact Angle Determination as per P.O.)	Dr A K Bansal	M/s Johnson and Johnson Ltd.	Funds Awaited
114	GC-AKB-15-19	Identification, isolation and particle size analysis of Nicorandil in Ikorel Tablets	Dr A K Bansal	M/s Genovo Development Services Ltd.	40,450
115	GC-AKB-15-20	Identification, isolation and particle size analysis of APIs in Innovator and Test Tablets	Dr A K Bansal	M/s CIPLA Ltd	71652
116	GC-AKB-15-21	Particle Size Analysis of Tadalafil API samples	Dr A K Bansal	M/s Micro Advanced Research Centre, Bangalore.	15,000
117	GC-AKB-15-22	Particle Size Analysis of Tetrabenazine in Reference and Test Tablets	Dr A K Bansal	M/s Natco Pharma Limited, Hyderabad	102360
118	GC-AKB-15-23	Gel Strength Analysis of Mesalamine Delayed release tablets	Dr A K Bansal	M/s Aizant Drug Research Solutions Pvt. Ltd., Hyderabad	1,00,000
119	GC-AKB-15-79	Identification, Isolation and Analysis of Particle Size of API in Tablets	Dr A K Bansal	M/s Glenmark Pharma	122832
120	GC-AKB-15-80	Polymorphs Studies of Azithromycin	Dr A K Bansal	M/s Rajasthan Antibiotics	
121	GC-AKB-15-81	Particle Size Distribution of API in Tadalafil Tablets	Dr A K Bansal	M/s Jubilant Lifesciences Ltd.	140450
122	GC-KBT-15-01	To investigate the antihyperlipidemic and hepatoprotective effect of VISIVABRM	Dr. K B. Tikoo	M/s Sivanaray INC, 8332 Lost River Road, Corona, California, USA	15,37,290
123	GC-KBT-15-02	Toxicity studies of nutraceutical compound Neomust (Acute oral toxicity study (up and down procedure) and 28 days oral toxicity study) in rats under GLP environment	Dr. K B. Tikoo	M/s Morepen Laboratories Limited	8,37,984

124	GC-MSG-15-01	Hydrogenation of a Semisynthetic Intermediate	Dr. M. S. Gill	M/s Chemical Resources, Panchkula	Funds Awaited
125	GC-MSG-15-02	Pilot Studies Involving Hydrogenation of an Intermediate	Dr. M. S. Gill	M/s Chemical Resources, Panchkula	
126	GC-MSG-15-03	Lab Scale Process for Pethidine HCL	Dr. M. S. Gill	M/s ARK Healthsciences Pvt. Ltd., Dera Bassi, India	83,250
127	GC-MSG-15-04	Batch validation Studies of P24 Stage II Product	Dr. M. S. Gill	M/s Celeste Life Sciences Pvt. Ltd., B-550, Sarita Vihar, New Delhi	2,20,000
128	GC-MSG-15-05	Synthetic process for N-Acetyl Dicloxacilloic acid	Dr. M. S. Gill	M/s DSM Anti-Infectives India Limited, Toansa	Not Executed
129	GC-MSG-15-06	Synthetic process for 6-AA Dicloxacillin amide	Dr. M. S. Gill	M/s DSM Anti-Infectives India Limited, Toansa	
130	GC-MSG-15-07	Synthetic process for DCMICG-Dicloxacilloic acid	Dr. M. S. Gill	M/s DSM Anti-Infectives India Limited, Toansa	
131	GC-MSG-15-08	Lab Sample Preparation of DOTP	Dr. M. S. Gill	M/s Veekay Polycoats Ltd.,	
132	GC-MSG-15-09	Drying Trials of AZPH	Dr. M. S. Gill	M/s HPL Additives Ltd	40,000
133	GC-MSG-15-10	Development Batches for ISLLC-361 Project	Dr. M. S. Gill	M/s Ind-Swift Laboratories Ltd	81,000
134	GC-MSG-15-11	Lab Scale Synthesis of Prednisolone 21-(3-Sulfobenzoic Acid) Sodium Salt	Dr. M. S. Gill	M/s ARK Healthsciences Pvt. Ltd	Not Executed
135	GC-MSG-15-12	Development Batches for ISLLC-573	Dr. M. S. Gill	M/s Ind-Swift Laboratories Ltd	6,05,000
136	GC-MSG-15-13	Lab Scale Process for Azacyclone HCl	Dr. M. S. Gill	M/s ARK Healthsciences Pvt. Ltd	40,000
137	GC-MSG-15-14	Lab Scale Process for Lopramide HCl	Dr. M. S. Gill	M/s ARK Healthsciences Pvt. Ltd	60'000
138	GC-MSG-15-15	VTD Drying Trials of Herbal Product	Dr. M. S. Gill	M/s Good Food Industries,	10,000
139	GC-MSG-15-16	Scale Up Studies of Celeste Product I & II	Dr. M. S. Gill	M/s Celeste Life Sciences Pvt. Ltd	1,98,000
140	GC-MSG-15-17	Scale up and Validation Studies of Azacyclone Intermediate	Dr. M. S. Gill	M/s ARK Healthsciences Pvt. Ltd	Pending
141	GC-MSG-15-18	Validation Demo Batch of P24 Stage II Product	Dr. M. S. Gill	M/s Celeste Life Sciences Pvt. Ltd	51,300
142	TS-AKB-15-01	Spray drying of Cephalosporin samples	Dr A K Bansal	M/s Nectar Lifesciences	25000
143	TS-AKB-15-02	Spray drying of Cephalosporin samples	Dr A K Bansal	M/s Nectar Lifesciences	31150

iv. Entrepreneurship / Incubators:

A proposal for setting up of incubators on the campus has been submitted for approval as a part of XII five year plan.

v. Issues:

- (a) Lack of common areas of interest
- (b) Lack of co-operation from the Industry
- (c) Intellectual property rights (IPR) issues
- (d) Lack of incentives for industry-driven research

1. Faculty positions may be designated as 'Research' or 'Technology' positions, as is the practice in many institutes abroad.

2. Govt. of India, through the Department of Pharmaceuticals, can approach its consulates in developing countries (ITEC-SCAAP) to enquire about their needs in the pharmaceutical sector. Syllabi, with hands-on training, could be designed and executed by faculty of NIPER, S.A.S. Nagar, which will be tailor-made for the user, i.e. the pharmaceutical sector worker in a particular country.

3. DoP could facilitate the participation of NIPER, S.A.S. Nagar, in meetings of various industrial associations so that the NIPER, S.A.S. Nagar should also be a part of the delegation visiting various destinations, both domestic and international, especially developing countries, to judge their requirements and present our capabilities.

4. DoP could facilitate the data being made available by various organisations (public and private) so that NIPER, S.A.S. Nagar could take over the arduous task of creating databases for various neglected diseases as well as leads which are usually lost in academic labs.

5. The support of DoP is needed to evolve an action plan for subsidizing technical, analytical and other support to the SME sector.

14. Innovation / knowledge transfer

- i. Patents and Commercialisation
- ii. Research income earned from industry
- iii. Issues in each of the above items and measures proposed to improve performance

i. Total Patents Filed by NIPER:: 170 (Average 7-10 patents are filed every year with average cost of Rs. 100,000/- per patent)

Indian Patents Granted: 36 (All granted live patents maintained by NIPER paying annuity fee of average Rs. 30,000-32,000/- roughly per patent.)

International Filing (PCT Filing): 08 (In the last three years average 2-3 PCT application filed every year with average cost of Rs. 3 Lacs per PCT application.

Foreign Granted Patents: 14

List of patents filed from January 2015 to December 2015 is provided in pg. 59-60.

ii. Research income earned from industry

Income earned from the licensing of patents during year 2015-16 is nil.

iii. Issues in each of the above items and measures proposed to improve performance

The major issue is the low rate of commercialization of patents filed. The possible reason(s) behind low patent commercialized is the lack of linkage between institute and industry. Further there is a lack of studies determining whether the patented product would be accepted in the market, even required, such consideration needs to be analyzed before even initializing R&D process.

15. Collaboration:

i. Collaboration with National and International Institutions

ii. Issues in each of the above items and measures proposed to improve performance

i. With academia:

Informal collaboration with almost all national institutes is in place. Formal MoUs have been signed with the following international institutes for working in areas of mutual interest:

- Volgograd State Medical University
- Hertfordshire University
- Chicago College of Pharmacy

With industry:

Details provided in pg. 20.

ii. Issues faced with industry:

Listed in pg. 81-82.

16. Impact of NIPER & Issues

The success of **NIPER, S.A.S. Nagar** has encouraged the Gol to set up more NIPERs across the country to meet the growing demands of the pharmaceutical sector.

- In addition, NIPER has carried out training programmes for personnel from India and abroad under ITEC-SCAAAP, capacity building programmes (World Bank-sponsored) and SMPIC.
- Participation in rebuilding of public sector enterprises like IDPL, BCPL, HAL, etc.
- Training and analytical services provided to small and medium-scale enterprises (SMEs): Setting up of a centre for SMEs
- Member of committee evaluating 'Investigational New Drugs' (IND) applications
- Member of committee revising Indian pharmacopeia
- Contribution of monographs to Ayurvedic pharmacopeia of India

- Carried out study on “Impact of TRIPS on pharmaceutical prices with special focus on generics in India”, under the workplan of WHO biennium and MHFW (Gol)

17. Institutional leadership

- i. Institutional Recognition
- ii. Collaboration/partnership with International Institutions
- iii. NIPER web portal enrichment
- iv. Issues in each of the above items and measures proposed to improve performance

i. Institutional Recognition

Listed in pg. 22.

ii. **Informal collaboration** with many international institutes is in place. Formal MoUs have been signed with the following international institutes for working in areas of mutual interest:

- Volgograd State Medical University
- Hertfordshire University
- Chicago College of Pharmacy

iii. NIPER web portal enrichment

1. Official webportal of NIPER has been made compliant to GIGW (Guidelines for Indian Government Websites) Norms.
2. Content on official webportal of NIPER are regularly updated with all official information such as Advertisement/Tender Notice/Joint Entrance Examination/Conferences /Seminars/ Workshops/Training of SMPIC.
3. Computer Centre updates information for the above from the sources after duly approval copy received online from the Competent Authority, as mentioned under **Contents Review Policy on the website**.
4. Information of Faculty & Staff has been updated regularly on NIPER web portal.
5. From year 2015-16 Computer Centre has added facility to receive payments for Online Registration of NIPER JEE-2015 thru Credit-Card/Debit Card/Net-Banking and thru e-Challan by Power Jyoti Fee Collection (PUL) Facility.
6. From year 2015-16 Computer Centre has added facility to assist candidates for Online Registration of NIPER JEE-2015 thru new web-portal (www.niperadmissions.in/).
7. RTI Information are annually updated on Official webportal of NIPER.
8. Official Forms are made available on NIPER Intranet (<http://192.168.18.63/>)

III.Previous Year Performance: Financial

Detailed Performance of NIPER during previous year 2015-16-Financial

SFC/EFC approval details if any for NIPER

SFC approved Schemes with Budget are given as annexure 5 (Refer Page 200-209)

A.Plan/ Non-Plan: Recurring Expenditure Estimates (Non-Capital)

A (1) Plan: Previous Year Expenditure FY 2015-16 (till 09-03-2016) Amount in Rs. Crore

S.No	Expenditure head	Units cost	Phy	Allocation	Expenditure	Annexure
1	Salary/ remuneration	-	-	-	-	
	Faculty	-	-		-	
	Technical staff	-	-		-	
	Support staff	-	-		-	
	Guest faculty honorarium	-	-	-	-	
	Others	-	-	-	-	
2	Scholarship/ Stipend	-	-	-	-	
	MS	-	-	-	-	
	M.Tech	-	-	-	-	
	MBA	-	-	-	-	
	Ph.D	-	-	-	-	
3	Academic	-	-	-	-	
	Laboratory consumables-chemicals / reagents/glassware	-	-	-		
	Seminars/ conferences/workshops/	-	-	-	-	
	Faculty development/ training programmes	-	-	-	-	
	Sports events	-	-	-	-	
	Literary / cultural events promoting and celebrating diversity and pluralism	-	-	-	-	
	Field work	-	-	-	-	
	Teaching aids	-	-	-	-	
	Student welfare	-	-	-	-	
	Research Projects	-	-	Nil	3.14	Kala Azaar & TB Related No funds

						released, this expenditure is met from spillover from previous year rs 3.85 Cr.
	Examinations/ Evaluatons	-	-	-	-	
	Convocation	-	-	-	-	
	Others	-	-	-	-	
4	Office expenses	-	-	-	-	
	Rentals	-	-	-	-	
	Electricity	-	-	-	-	
	Water	-	-	-	-	
	Telephone	-	-	-	-	
	IT	-	-	-	-	
	Printing	-	-	-	-	
	Journals	-	-	-	-	
	Vehicles	-	-	-	-	
	Travel	-	-	-	-	
	Institutional membership	-	-	-	-	
	Hospitality	-	-	-	-	
	Meetings	-	-	-	-	
	Institutional Membership	-	-	-	-	
	Advertisement	-	-	-	-	
	Others	-	-	-	-	
5	Travelling expenses	-	-	-	-	
5	Office/ infrastructure maintenance	-	-	-	-	
	Office building	-	-	-	-	
	Hostel building	-	-	-	-	
	IT	-	-	-	-	
	Instrumentation	-	-	-	-	
	House keeping	-	-	-	-	
	Gardening	-	-	-	-	
	Total	-	-	-	3.14	

S.No	Expenditure head		Units cost	Phy	Allocation	Expenditure	Annexure
1	Salary/ remuneration				Total funds allocated under head GIA (Salary) are Rs 14.75 Cr		Addl. Exp.met from IEBR
	Faculty	Regular	-	31		5.18	
		Contract	-				
	Technical staff	Regular	-	83		5.34	
		Contract	-				
	Support staff	Regular	-	45		3.67	
		Contract	-				
	Guest faculty honorarium		-	-		0.02	
	Others		-	-		-	
1	Salary/ remuneration		-	-		-	
	Faculty		-	-		-	
	Technical staff		-	-		-	
	Support staff		-	-		-	
	Guest faculty honorarium		-	-		-	
	Others		-	-		-	
2	Scholarship/ Stipend		-	-		-	
		MS	-	-		3.56	
		M.Tech	-	-		-	
		MBA	-	-		-	
		Ph.D	-	60		1.30	
3	Academic		-	-		-	
	Laboratory consumables-chemicals / reagents/glassware		-	411		1.67	
	Seminars/ conferences/workshops/			3		0.08	
	Faculty development		-	-		-	
	Sports events		-	-		-	
	Literary / cultural events promoting and celebrating diversity and pluralism		-	-		-	
	Field work		-	-		-	
	Teaching aids		-	-		-	
	Student welfare		-	-		-	
	Research Projects		-	-		-	
					Total funds allocated under head GIA (General) are Rs12.73 Cr		Addl. Exp.met from IEBR

B. Non-Plan: Non-recurring capital Expenditure Estimates FY 2015-16 (till 09-03-2016) (fig in Rs in Crore)

	Expenditure Head	Units cost	Phy	Allocation	Expenditure	Annexure	Remarks/
1.	Creation of Infrastructure / Campus Development			Nil	.08		Exp.met from IEBR
2.	Lab Equipments *			Nil	.50		Exp.met from IEBR
3.	Information Centre / Knowledge Bank Books / Journals / e-journals				-		
4.	Software Development & Procurement LAN/WAN				-		
5.	Office / Class room Equipments Computers /ACs/Printers & Copiers, Projectors and Audio Visual Systems/ Gym			Nil	.03		Exp.met from IEBR
6.	Furniture & Fittings (Office & Hostels, Staff quarters)			Nil	.11		Exp.met from IEBR
7.	Vehicles For Director Ambulance for Health Center				-		
8.	Models & Exhibits				-		
9.	Miscellaneous				-		
	Total				0.72		

C.Total of Plan and Non-Plan/ Recurring and Non-recurring –Capital Expenditure:

(Amt in crore)

Plan/ Non-Plan	Recurring/ Non-recurring- Capital	Spillover FY 2014-15	Allocation 2015-16	FY	Receipts	Total Expenditure till date	Balance	
Plan	Recurring	3.85				3.14	0.71	KA& TB Projects
Non-Plan	Recurring	-	27.48		27.48	29.34	-1.87	Addl. Exp.met from IEBR
	Non Recurring		-		-	.72	-	Exp. Incurred from IEBR

D. External Funding of projects

PROJ ECT NO.	SPON SOR	TITLE	PI	Started on	Total Funds Received as on 17.02.2016	Capital funds	Duration	Remark s
GP-350	DBT	Role of mycobacterial glyceraldehyde-3 phosphate dehydrogenase in iron uptake	Dr. Chhaya lyengar	25.05.2010	4243000	499000	3 Years	
GP-355	DST	PPARs	Dr. S.S. Sharma	02.08.2010	3816800	500000	3 Years	
GP-363	CSIR	Role of sirtuins in modulating gene function in leishmania donovani	Dr. Sushma Singh	24.01.2011	1748133	500000	3 Years	
GP-368	CSIR	JRFShip in the scheme	Dr. Abay Sangamwar	27.05.2011	281422	0	3 Years	
GP-371	CSIR	Design and synthesis of novel Y shaped PPARy activators	Prof P.V Bharatam	16.01.2012	1427391	500000	3 Years	
GP-372	SERB	Pattern of mutant hunting protein	Dr. Ipsita Roy	05.03.2012	3850000	0	3 Years	

GP-373	INFOR MATIO N & TECHN OLOGY	Prediction of blood barrier	Dr. Prabha Garg	06.03.2012	1279000	0	3 Years	
GP-374	DST	Post doctoral fellowship	Dr. Sanyog Jain	06.03.2012	830000	0	3 Years	
GP-375	DBT	Homology model CYP1A1	Dr. Abhay Sangamwar	09.04.2012	3562500	2000000	3 Years	
GP-376	DRDO	Comparative chemoprofiling R heterodanta	Dr. I.P Singh	26.03.2012	950000	0	3 Years	
GP-377	ICMR	Stabilization of tetanus toxoid against moisture-induced aggregation	Dr. Ipsita Roy	03.05.2012	2695771	800000	3 Years	
GP-378	INSA	Development of smart nanoconstructs as non-viral vectors for site specific gene delivery	Dr. Sanyog Jain	22.05.2012	1010543	0	3 Years	
GP-379	SERB	Selective androgen receptor modulators	Dr. Vipin A Nair	22.05.2012	2400000	800000	3 Years	
GP-380	SERB	Scaffold hopping of flavonoids: Design, synthesis exploration and studies of topoisomerase II-targeting anticancer activities	Dr. S.K Guchhait	29.05.2012	3200000	1800000	3 Years	
GP-381	DST	Characterization of eukaryotic initiation factor 5a of leishmania donovani and its efficacy as drug targets	Dr. Sushma Singh	31.05.2012	1050000	0	3 Years	
GP-382	CSIR	Design and development of novel delivery systems of antihypertensive agents: chronotherapeutic combination approach	Dr. Sarasija Suresh	05.07.2012	1072500	0	3 Years	
GP-383	ICMR	Nanotechnology based drug delivery system for mycobacterium avium complex (MAX) infection alone or associated with HIV	Dr. Neeraj kumar	04.09.2013	50000	0	3 Years	
GP-384	DST	Development of targeted nanothermostics (agents for diagnosis and therapy) based on small molecules, photosensitizers and imaging agents for potential in vivo applications.	Prof. U.C Banerjee/ Dr. Jayeeta Bhaumik	13.09.2012	2070000	0	3 Years	

GP-385	DBT	In silico investigation of mechanism based inhibition of CYPs	Dr. P.V Bhartam	16.10.2012	3824000	1989000	3 Years	
GP-387	DBT	Identification of Potential anti-HIV natural products analogs using molecular clocking and medicinal chemistry approaches.	Dr. I.P Singh	02.11.2012	4115749	1502000	3 Years	
GP-388	CSIR	Development of metal-catalyzed domino reactions for the synthesis of biaryls containing five to eight member ring and its application in the synthesis of active pharmaceutical ingredients (API) and natural products	Dr. Joydev K. Laha	05.12.2012	612097	200000	3 Years	
GP-389	DEPTT OF PHARMACEUTICALS	Enhancement of oral Bioavailability of melatonin and Evaluation	Dr. A.K Bansal	24.01.2013	665500	0	3 Years	
GP-390	CSIR	Molecular property diagnostic suite(MPDS): An OSDD chemoinformatics portal	Prof. P.V Bhartam	19.02.2013	500000	100000	3 Years	
Gp-391	SERB	Divalent N(I) compounds among therapeutic agents an electronic structure and reactivity study	Prof. P.V Bhartam	16.04.2013	4700000	2500000	3 Years	
GP-392	DEPTT OF PHARMACEUTICALS	Studies on molecular approaches to TB-determination of the prevalence of MDR and XDR strains, drug susceptibility testing and development of new diagnostic tests	Prof P.P Singh	14.05.2013	6906460	5000000	3 Years	
GP-393	DBT	Effect of finger millet (Eleusine coracana) and kodo millet (paspalum scrobiculatum) Arabinoxylan on adipogenesis and associated inflammatory markers -A Nutrigenomic study	Dr K K Bhutani	22.05.2013	1820475	0	3 Years	
GP-394	SERB	The relevance of host and Mycobacterial GAPDH during infection	Dr Chaaya lyengar	30.07.2013	2950000	1000000	3 Years	
GP-396	DBT	Stereoselective synthesis of chiral alcohols of pharmaceutical importance via microbial oxidoreductases : process development and scale up	Dr. U.C Banerjee	14.08.2013	924800	0	3 Years	
GP-397	ICMR	Synthesis pKa determination and in-vivo toxicity of a new promising anti malarial 6- methoxy 5 -d(4-amino 1 phenyl quinoline	Dr A K Chakraborti	17.09.2013		0	3 Years	Funds not received

GP-398	SERB	The challenges for new drug discovery for oral anti diabetic drugs : molecular dynamics simulations pharmacophore modeling and molecular design of PTPI B allosteric inhibitors	Dr. M.E. Sophia	28.10.2013	2500000	1500000	3 Years	
GP-399	CSIR	Studies on PTPI B allosteric inhibitors in silico design biological applications and protein crystallization	Dr. M.E. Sophia	06.12.2013	1307000	1000000	3 Years	
GP-400	SERB	Development and evaluation of nanocrystalline solid dispersion of an antioxidant	Dr A K Bansal	06.12.2013	1000000	0	3 Years	
GP-401	SERB	Development of metal catalyzed domino synthesis of azafluorenes and its applications in the synthesis of compounds potential as aromatase inhibitors	Dr J K Laha	17.06.2014	4000000	2640000	3 Years	
GP-404	SERB	Generation and characterization of improved variants of ssopox enzyme as organophosphate-degrading agent	Dr Abhay H Pande	04.08.2014	900000		3 Years	
GP 405	CSIR	Natural Product Inspired Novel Heterocycle Antitubulin Anticancer Agent: Design Synthesis and Bio-evaluation studies	Dr. S.K Guchhait	10.12.2014	676200	0	3 years	
GP-406	DBT	Nanocrystalline solid dispersion of polyphenols with enhanced oral bioavailability for cancer treatment	Dr A K Bansal	21.01.2015	1198980	160980	3 Years	
GP-407	SERB	Exploring the role of aging on chaperonemediated protein folding in yeast model of huntington's disease	Dr Ipsita Roy	Dec-15	2625000	1200000	3 Years	
GP-408	DST	Multiscale modeling of pharmaceutically relevant Drug-Dendrimer nonoscale complexes	Dr P V Bharatam	Sep-15	4000000	3167000		
GP-409	DRDO	Biological active secondary metabolites from codonopsis clematidea of trans himalayas	Dr Inder Pal Singh	Oct-15	650000			
GP-410	DBT	Regulated expression of RNA aptmers for inhibition of protein aggregation	Dr Ipsita Roy					Funds not received
GP-411	DBT	Isolation and characterization of Xanthine oxidase inhibitors from endophytic fungi for treatment of hyperurecemia and gout	Dr Inder Pal Singh	Nov-15	1370000	500000	3 Years	

GP-412	ICMR	Comparative efficacy , safety and generalized cost effectiveness of commonly used medicines in chronic low back pain	Dr Dipika Bansal					Funds not received
SP-215	BMS SYNGENE INTERNATIONAL LTD.		Dr P V Bharatam		11036711.5			
SP-223	M/S Zoetis Pharmaceutical Resersearch Pvt Ltd		Dr A K Bansal		783375			
					94603407.5	29857980		

E. Resource mobilization from Consultancy/ others and from various centres

Type	No.(2014-15)	Funds Received (in lacs)	No.(2015-16)	Funds Received (in lacs)	Total Funds Received
General Consultancy	91	108.97	46	106.96	215.93
Technical Services	1	5.68	2	0.72	6.4
Advisory Consultancy	2	10.95			10.95
Total	94	125.6	48	107.68	233.28

F. NIPER Endowment/ Corpus Fund details

Amt in Cr

Source	Date of receipt	Expenditure	Balance	
IEBR	Previous years	-11.29	60.22	Details as under

SL NO.	FDR NO	A/C NO.	DATE	AMOUNT
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CANARA BANK

1	371903	41300004271	23.01.2015	9000000.00
2	371904	41300004272	23.01.2015	9000000.00
3	371905	41300004273	23.01.2015	9386791.00
		TOTAL		27386791.00

SBOP-NIPER

4	342935	65193404157	30.03.2014	20633.00
5	151981	65210415221	16.06.2014	9693143.00
6	151980	65210415094	16.06.2014	7736718.00
7	342772	65182517709	15.12.2013	20000000.00
8	342773	65182518204	15.12.2013	20000000.00
9	342774	65182518362	15.12.2013	20000000.00
10	342775	65182518475	15.12.2013	20000000.00
11	342776	65182518533	15.12.2013	27147809.00
12	340783	65182633577	06.12.2013	37963728.00
13	513409	65213582074	13.10.2014	3501720.00
14	513418	65214838742	20.10.2014	1707210.00
15	342840	65186498952	20.01.2014	28868172.00
16	342849	65186654899	22.01.2014	20000000.00
17	342850	65186655145	22.01.2014	20000000.00
18	342851	65186655383	22.01.2014	20000000.00
19	342852	65186677769	22.01.2014	20000000.00
20	342853	65186677996	22.01.2014	28035119.00
21	342854	65186790014	23.01.2014	18216642.00
22	151968	65205908857	27.08.2014	10000000.00
23	151965	65205908857	27.08.2014	10240000.00
24	151961	65207067843	29.08.2014	16540000.00
25	513546	65228937815	31.03.2015	460000.00
		TOTAL		360130894.00

CORPORATION BANK- ph-10

26	282774	140002	13.01.2014	7699962.00
27	282775	140003	13.01.2014	9000000.00
28	282776	140004	13.01.2014	9000000.00
29	282777	140005	13.01.2014	9000000.00
30	388137	150126	07.03.2015	100000000.00
31	388138	150127	07.03.2015	100000000.00
32	388139	150128	07.03.2015	100000000.00
33	388040	150129	07.03.2015	100000000.00
34	388141	150130	07.03.2015	100000000.00
35	388142	150131	07.03.2015	100000000.00
36	388143	150132	07.03.2015	19155365.00

TOTAL **203855327.00**

INDIAN BANK

37	432428	6245024167	21.08.2014	10909000.00
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TOTAL **10909000.00**

G. TOTAL				602282012.00
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Corpus Fund is created as per Section 22 of NIPER Act 1998

G. Reconciliation of Cash book with grants/ receipts

NIPER Bank Account / Deposits	Nature of account/ Deposit	Source of funds	Amount as on 29-02-2016	Deviation if any
SBOP	Savings A/c	Grant/IEBR	1.44 Cr.	Refer Annexure 12

IV. Plan for the current financial year-

- Plan and financial requirements for the current year towards all interventions specified under approved EFC/ NIPER Act and Statute
- Spill over budget. (the balance of the approved activities proposed to be carried over to the current year from the previous year).
- NIPER corpus contribution.

S.No	Expenditure head	Outlay Proposed 2016-17 by NIPER									Outlay Recommended by Technical Committee								
		Spill over			Fresh			Total			Spill over			Fresh			Total		
		Phy	Fin	Unit	Phy	Rs. (Cr)	Unit	Phy (%)	Fin	Phy	Fin	Unit	Phy	Fin	Unit	Phy	Fin	Unit	
	Plan																		
1	Students" fellowships, stipend* (A1)	-	-	-	-	7.94	-	33 %	8.20										
2	Students research contingency including lab consumables** (A2)	-	-	-	-	5.41	-	33%	5.41										
3	Upgradation of Central Animal Facility (A3)	-	-	-	-	1.50	-	25%	1.50										
4	Library (A4)	1.52	-	-	-	0.48	-	20%	2.00										
5	Modernization of Pharmaceutical Analysis facilities (A5)	-	-	-	-	.50	-	25%	0.50										

A.Non-Plan: Recurring Expenditure Estimates (Non-Capital)

		Outlay Proposed 2016-17 by NIPER									Outlay Recommended by Technical Committee						
S.No	Expenditure head		Spill over		Fresh			Total			Spill over		Fresh			Total	
			Phy	Fin	Unit	Phy	Rs. (Cr)	Unit Cost	Phy (%)	Fin	Phy	Fin	Unit	Phy	Fin	Unit	Phy
	Recurring																
1	Salary/ remuneration	Regular	-	-	-	-	-	-	-	-							
	Faculty	Contract	-	-	-	-	-	-	-	-							
		Regular	-	-	-	31	16.09	-	100%	16.09							
	Technical staff	Contract	-	-	-	-	-	-	-	-							
		Regular	-	-	-	83	13.77	-	100%	13.77							
	Support staff	Contract	-	-	-	-	-	-	-	-							
		Regular	-	-	-	45	7.07	-	100%	7.07							
2	Scholarship/ Stipend			-	-	-	-	-	-	-							
	MS		-	-	-	620	8.69	12400	100%	8.69							
	M.Tech		-	-	-												
	MBA		-	-	-	12	0.05	12400	100%	.05							
	Ph.D		-	-	-	66	2.93	25000/28000	100%	2.93							

3	Academic activities	-	-	-	-	-	-	-	-							
	Laboratory consumables-chemicals / reagents/glassware	-	-	-	-	6.19	-	100%	6.19							
	Seminars/conferences/workshops/	-	-	-	-	-	-	-	-							
	Faculty development	-	-	-	-	-	-	-	-							
	Sports events	-	-	-	-	-	-	-	-							
	Literary / cultural events promoting and celebrating diversity and pluralism	-	-	-	-	-	-	-	-							
	Field work	-	-	-	-	-	-	-	-							
	Teaching aids	-	-	-	-	-	-	-	-							
	Student welfare	-	-	-	-	-	-	-	-							
	Research Projects	-	-	-	-	-	-	-	-							
	Examinations/ Evaluatons	-	-	-	-	-	-	-	-							
	Convocation	-	-	-	-	-	-	-	-							
	Others	-	-	-	-	-	-	-	-							
4	Office expenses	-	-	-	-	-	-	-	-							
	Rentals	-	-	-	-	-	-	-	-							
	Electricity/ Power	-	-	-	-	3.59	-	100%	3.59							
	Water	-	-	-	-	-	-	-	-							
	Telephone	-	-	-	-	0.18	-	100%	0.18							
	IT	-	-	-	-	-	-	-	-							
	Printing	-	-	-	-	0.14	-	100%	0.14							
	Journals	-	-	-	-	-	-	-	-							
	Vehicles	-	-	-	-	0.10	-	100%	0.10							
	Travel	-	-	-	-	-	-	-	-							

	Institutional embership	-	-	-	-	-	-		-								
	Curicular Activities	-	-	-	-	0.30	-	100%	0.30								
	Meetings	-	-	-	-	0.05	-	100%	0.05								
	Advertisement	-	-	-	-	0.05	-	100%	0.05								
	Others office Exp	-	-	-	-	2.82	-	100%	2.82								
5	Travelling Expenses	-	-	-	-	0.15	-	100%	0.15								
6	Office/ infrastructure maintenance	-	-	-	-	-	-		-								
	Office building	-	-	-	-	3.00	-	100%	3.00								
	Hostel building	-	-	-	-	-	-		-								
	IT	-	-	-	-	-	-		-								
	Instrumentation	-	-	-	-	2.56	-	100%	2.56								
	House keeping	-	-	-	-	3.86	-	100%	3.86								
	Gardening	-	-	-	-	-	-		-								
7	Contingency	-	-	-	-	-	-		-								
	Total	-	-	-	-	68.09		100%	68.09								
		-	-	-	-	-	-		-								
	Non-recurring/ Capital	-	-	-	-	-	-		-								
1.	Creation of Infrastructure /Campus Development	-	-	-	-	-	-	-	-								
2.	Lab Equipments *	-	-	-	-	-	-	-	-								
3.	Information Centre / Knowledge Bank	-	-	-	-	-	-	-	-								
	Books / Journals / e-journals	-	-	-	-	-	-	-	-								
4.	Software Development & Procurement	-	-	-	-	-	-	-	-								
	LAN/WAN	-	-	-	-	-	-	-	-								
5.	Office / Class room	-	-	-	-	-	-	-	-								

	Equipments															
	Computers /ACs/Printers & Copiers, Projectors and Audio Visual Systems/ Gym	-	-	-	-	-	-	-	-							
6.	Furniture & Fittings	-	-	-	-	-	-	-	-							
	(Office & Hostels, Staff quarters)	-	-	-	-	-	-	-	-							
7.	Vehicles	-	-	-	-	-	-	-	-							
8.	Models & Exhibits	-	-	-	-	-	-	-	-							
9.	Miscellaneous	-	-	-	-	-	-	-	-							
	Total	-	-	-	-	-	-	-	-							
	Grand Total	-	-	-	-	68.09	-		68.09							

Non-Plan- Non-recurring capital Expenditure Estimates

S.No	Expenditure head	Outlay Proposed 2016-17 by NIPER								Outlay Recommended by Technical Committee							
		Spill over		Fresh				Total		Spill over		Fresh		Total			
	Non-recurring/ Capital	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.	Creation of Infrastructure /Campus Development	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.	Lab Equipments *	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3.	Information Centre / Knowledge Bank	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Books / Journals / e-journals	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4.	Software Development & Procurement	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	LAN/WAN	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5.	Office / Class room Equipments	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Computers /ACs/Printers & Copiers, Projectors and Audio Visual Systems/ Gym	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
6.	Furniture & Fittings	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	(Office & Hostels, Staff quarters)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

7.	Vehicles	-	-	-	-	-	-	-	-	-						
8.	Models & Exhibits	-	-	-	-	-	-	-	-	-						
9.	Miscellaneous	-	-	-	-	-	-	-	-	-						
	Total	-	-	-	-	-	-	-	-	-						
	Grand Total	-	-	-	68.09	-	68.09	-	-	-						

Note: Annexure should provide details of expenditure under each head/ sub- head with break up Department wise etc.

* Provision for Salary has been made w.r.t. 7th pay Commission, Annual increment, Dearness Allowance, vacant position to be filled, provisions for retiral benefits, special provision for pension Fund, etc.

** 1.Provision for Student Stipend have been at revised rate approved by the Ministry.

2. Provision for Pension Fund of Rs. 5.00 cr made, keeping in view the pension valuation done by the actuary M/s Charan Gupta Cosultant Pvt. Ltd. who assessed the pension liability of Rs. 26.72 cr as on 31-03-2015, whereas pension fund corpus with NIPER is only Rs. 2.82 cr as on 31.03.2015, so it was advised to build the pension fund corpus @ Rs. 5.00 cr, so that NIPER Mohali shall be able to honour the pension liability later on.

Summary (Plan and Non-Plan) for the FY 2016-17

	Spill Over from previous year	Fresh	Total
Non- Plan	-	68.09	68.09
Plan	9.79	63.89	73.68
Grand Total	9.79	131.98	141.77

C. Plan/ Non-Plan- Spill over Budget

Expenditure Head	Units	Numbers	Unit cost	Units	Proposed by NIPER	Recommended by Tech. Com	Recommended by PAB
-	-	-	-	-	-	-	-

D.Total of Plan and Non-Plan/ Recurring and Non-recurring –Capital Expenditure:

Plan/ Non-Plan	Recurring/ Non-recurring- Capital			Recommended by Tech. Com			Approved by PAB			Remarks
	(In Fresh Crore)	Spill over budget	Deferred liability	Fresh	Spill over budget	Deferred liability	Fresh	Spill over budget	Deferred liability	
Plan	63.89	9.79	-	-	-	-	-	-	-	-
Non-Plan	68.09	-	-	-	-	-	-	-	-	-
Total	131.98	9.79								

E. External Funding of projects

Title of the project	Name of the funding agency	Amount sanctioned	Time line	Status	Name of the faculty undertaken the Project Research	Expected Deliverables Including Revenue Generation	Performance of Project
	Same as page 99 Para D						

F. Final Approved amount by PAB

Head	Proposed Outlay 2016-17				Recommended Outlay 2016-17			
	Spillover	Deferred Liability	Fresh	Total	Spillover	Deferred Liability	Fresh	Total
Plan								
Non-Plan								
Total								

V.Action taken on CAG/ Audit/Parliamentary Standing/ Consultative Committee reports

CAG/ Committee report No. and para	Para content	Action taken by NIPER	Comments of Technical Committee
MAB-II/CAD- 1/86-3/2013- 14/725 dt 11.12.2014 - Part-1			
Para 1	Surrender of Government Grant of Rs. 4.22 crore and payment of interest amounting to Rs 1.56 crore thereon due to non implementation of auditorium project beside diversion of government grant of Rs 2.89 crores.	<p>Under 11th Plan Institute had proposed various R&D activities as ongoing Schemes and New schemes. Board of Governors (BOG) in its 51st meeting held on 29.03.09 had approved the approval for the construction of an auditorium having seating capacity of 1500 persons. The initial proposal excluding air conditioning work. The project was proposed as the existing convention centre having 392 seats could not accommodate the increased strength of about 800 students, staff and invited guests. Govt of India Ministry of Chemicals & Fertilizers had released Rs 4.22 crores while releasing the total grant of Rs 19.20 crores vide sanction No 52(48)/2009 dated 22.06.2009. Upon reworking the proposal, the revised cost estimate was Rs for Rs 11.09 crores which has been submitted to the ministry under Revised cost estimate on recommendation of the Finance Committee/BOG.</p> <p>Institute many time requested ministry to release the requisite grant for the execution of the project as per RCE. Further as ministry had not released requisite grant for execution of the project, as a last resort ministry through various letters viz. letter No F.2 (16)/2011/RCE/1/5625 dated 13.09.2010, F-2 (16)/2011/GIA/1/7741 dated 12.11.2010, F.2 (16)/2011/GIA/1/85512 dated 29.11.2010 and requested for the re appropriation of the fund under 12th Five year Plan. As no plan grant was released, therefore project could not been materialized/started.</p> <p>The difference in cost on the basis of revised estimate for construction of auditorium comes to Rs 6.87 crores, so it was not prudent to initiate the project with insufficient fund support as such Finance Committee in its meeting held on 2nd September 2010 had decided to defer the construction of auditorium.</p> <p>Ministry vide letter No 50012/5/2013-NIPER dated 19th February 2014 directed to refund the Plan Grant in Aid released for this purpose. Accordingly institute refunded</p>	

		Rs.4.22 crores along with interest earned vide DD No 423386 dated 10.02.14 amounting to Rs 57803595.00. Moreover, initiation of construction work with insufficient funds not only would have hampered the progress of work but would have been attracted audit objection at a later stage. Institute has taken action as directed by the ministry and thus the issue is solved. Further there is no fund diversion as communicated vide letter No NIPER/F&A/2012/GIA dated 29.08.2013.	
Para 2	Idling of infrastructure worth Rs.4.58 crore created for Dosages Formulation Scale up facility and loss of revenue of Rs. 2.74 crore.	Construction of this plant was initiated based on successful running TDC (Technology Development Centre). Time loss was also because of teething problems of a big unconventional new project. Dosage Plan committee had already initiated in assuring that no cost is spent on procuring of machinery by extensively liaising with higher up firms to initiate functioning. But money is required to give final touches to the plant, which had been neglected under the XII Plan, which is yet to be sanctioned.	
Para 3	Injudicious expenditure of Rs.2.35 crore on extension of girls' hostel without using existing infrastructure.	Construction of hostel was initiated to provide safe stay and to avoid wastage of time for their studies. Justification for the requirement of extension of girl's hostel as per the decision of BOG has been provided to audit.	
Para 4	Non-revision of course fee and resultant loss of Rs.1.94 crore.	Fee has been revised by 10% as per the recommendation of senate /finance committee /BOG.	
MAB-II/CAD-1/86-3/2013-14/725 dt 11.12.2014 – Part-II			
Para 1	Payment of Rs.11.40 lakh without getting installation of software.	A committee has been formed to resolve the issue with the party and action initiated to recover the amount.	
Para 2	Payment of Rs.13.43 lakh for an instrument with manufacturing defect.	Matter has been vigorously taken up with the supplier co. to replace the defective instrument.	
Para 3	General Deficiencies.	Action has been initiated for removal of General Deficiency suggested by Audit. As per GFR 154 procurement of materials from single tender can be made in urgency. Institute is having the mechanism of registering vendors for chemicals and glassware. Appointment of employees on contract has been removed and regularization has been initiated.	
Para 4	Internal Control.	Internal Control already exists in the institute. Draft IPR policy was placed before the BOG in its 64 th meeting. Institute is in the process of drafting new consultancy rules. Records have been page numbered. A retired officer from Defence Accounts joined to head the internal audit. Two assistants are assisting his work to strengthen internal audit.	

VI. Comments on NIPERs commitments made during PAB 2015-16 and action taken thereon:-

Project Approval Board Commitments 2015-16

Commitment	Action Taken By NIPER	Remarks Technical Committee	by Latest position (to be reported by Technical Committee)
	It is a 1st PAB meeting		

Appraisal NIPER _____ Mohali _____ 2016-17

Overview Progress through time series data

NIPER Performance Indicators

	2007-08	2008-09	2009-10	2010-11	2011-12	2012-13	2013-14	2014-15
No.of Deptts.	10	10	10	10	10	10	10	10
No.of Students took admission	135	168	194	312	302	336	202	235
No.of students passed out in the same year	133	163	190	286	285	315	195	-
No.of students passed in subsequent years	Nil	Nil	Nil	Nil	Nil	Nil	2	1
No.of students not passed out	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil
Number of Teaching Faculty	30	31	33	36	36	36	34	31
Teacher-Student ratio	1:5	1:5	1:6	1:9	1:8	1:9	1:6	1:8
No.of technical staff	45	45	47	52	54	52	51	54
Technical staff-student ratio	1:3	1:4	1:4	1:6	1:6	1:6	1:4	1:4

1. Rough cost estimate for Extension of existing 6 storey 100 seater Boys Hostel (Extension of existing New block excluding dining hall and mess area)

(Building works incl. Fire fighting, Furniture, Lifts & Solar Water Heating System)

BASED ON PLINTH AREA CPWD PAR 2012 AS ON 01.10.2012

S No	Description	Area (sqm)	Unit	Rate/sqm	Amount	Remarks
(A)	Civil Work					
1	Six storey Hostel Block with RCC Framed Structure	3240	Sqm	15,000	48,600,000	CPWD plinth area 2012 rate (1.1.2 (B))
2	Fire Fighting (with wet riser system)	3240	Sqm	500	1,620,000	1.4.1
	Total for (A)				50,220,000	
(B)	Services					
3	Internal Water supply & Sanitary		@10% of "A"		5,022,000	
4	Internal Electric Installations		@12.5% of "A"		6,277,500	
5	Lightening conductors		@ 0.33% of "A"		165,726	
6	Computer conduits		@ 0.5% of "A"		251,100	
	Total for (B)				11,716,326	

	Total (1 to 8)				61,936,326	
(C)	Additional Services					
	Lift (13 passenger capacity)	1	no.	2800000	2,800,000	
	Furniture and other miscellaneous items.		@ 10% of bldg. cost		5,022,000	
	Solar water heating system capacity 1000 litre per day including piping and cold water tank and accessories	3	unit	230,000	690,000	
	Internal Road/paths	3240	Sqm	145	469,800	6.2
	Distribution lines 100 mm dia or below	3240	Sqm	80	259,200	6.4.1
	Total for (C)				9,241,000	
	Total Infrastructure cost (A+B+C)				71,177,326	
	Consultancies @ 3%				2,135,320	
	G. Total				73,312,646	
				Say	7.33	crores

NOTE:-THE COST AND TIME OF THE PROJECT IS LIABLE TO REVISION DUE TO PROBABLE ESCALATION IN COST OF CONSTRUCTION APART FROM REASONS SUCH AS CHANGE IN SCOPE,AREA,DESIGN AND SPECIFICATIONS ETC.

2. Rough cost Estimate for Construction of New Lecture Halls (Triple storey)

Building Works incl. Air Conditioning, Furniture, Audio Visual facilities) BASED ON PLINTH AREA CPWD
PAR 2012 AS O1.10.2012 (updated as on 30.09.2014)

S No	Description	Area (sqm)	Unit	Rate/ sqm	Amount	Remarks
(A)	Civil Work					
1	Three storey lecture hall Block with RCC frames	1530	Sqm	17,000	26,010,000	CPWD Plinth area rate 2007 (1.1.1, 1.2.7, 8,11)
2	Fire Fighting	1530	Sqm	500	765,000	1.4.1
	Total for (A)				26,775,000	
(B)	Services					
4	Internal Water supply & sanitary		@ 4% of "A"		1,071,000	
5	Internal Electric installations		@12.5% of "A"		3,346,875	
6	External services connection		@ 5% of "A"		1,338,750	
7	Power wiring		@ 4% of "A"		1,071,000	
9	Computer conduits		@ 0.5% of "A"		133,875	
	Total (B)				6,961,500	
	Total for (A) + (B)				33,736,500	
11	Corridors around the lecture hall and connecting blocks with lecture halls	830	sqm	17,000	14,110,000	

	Building Works Total Cost				47,846,500	
	Air Conditioning	120	Ton	35,000	4,200,000	
	Furniture	884	Seats	4,000	3,536,000	
	Audio visual facilities	4	Nos	700000	2,800,000	
	Total cost for infrastructure				58,382,500	
	Consultancies/ Architectural fees @ 3%				1,751,475	
	G. Total				60,133,975	
				Say	6.01	Crores

NOTE:-THE COST AND TIME OF THE PROJECT IS LIABLE TO REVISION DUE TO PROBABLE ESCALATION IN COST OF CONSTRUCTION APART FROM REASONS SUCH AS CHANGE IN SCOPE,AREA,DESIGN AND SPECIFICATIONS ETC.

3: Rough Cost Estimate for Extension of existing Animal House (First Floor)

(Building works incl. Air Conditioning, Lab. Furniture, lift & Solar water heater system) BASED ON PLINTH AREA

CPWD RATES

S No	Description	Area (sqm)	Unit	Rate/ sqm	Amount	Remarks
(A)	Civil Work					
1	Load bearing structure of First Floor same as Ground Floor	660	Sqm	15,520	10,243,200	CPWD plinth area rate 2012 (2.1.1, 2.6.2)
2	Fire Fighting (with wet riser system)	660	Sqm	500	330,000	1.4.1
3	Fire Alarm system	660	Sqm	500	330,000	1.5.2
	Total for (A)				10,903,200	
(B)	Services					
4	Internal Water supply & sanitary		@10% of "A"		1,090,320	
5	Internal Electric installations		@15% of "A"		1,635,480	
5	external service connection		@5% of "A"		545,160	
6	Power wiring		@ 4% of "A"		436,128	
7	Lightening conductors		@ 0.5% of "A"		54,516	
8	Telephone conduits		@ 0.5% of "A"		54,516	
9	Computer conduits		@ 0.5% of "A"		54,516	
	Total for (B)				3,870,636	

	Total (1 to 9)				14,773,836	
	Building work total cost				14,773,836	
(D)	Additional Services					
	False ceiling	440	sqm	1,200	528,000	
	Air Conditioning	480	sqm	6,000	2,880,000	
	Laboratory Furniture		@ 15% of bldg. cost		2,216,075	
	Good Lifts	2	nos.	2,345,0 00	4,690,000	4.2.1
	Solar water heating system capacity 1000 litre per day including piping and cold water tank and accessories	2	unit	310,00 0	620,000	
	Internal road / path	440	sqm	145	63,800	6.2
	Distribution line 100 dia or blow.	440	sqm	80	35,200	6.4.1

	Total for (D)				11,033,075	
	Utility services (lump sum)				500,000	
	Total Infrastructure cost (A+B+C+D)				26,306,911	
	Contingencies @ 5%				1,315,346	
	G. Total				27,622,257	
				Say	2.76	crores

4.)STRENGTHING OF SECURITY WALL AND FENCE AROUND NIPER PERIPHERI PREMISES AT NIPER, S.A.S. Nagar,

Mohali, Sector - 67

S. No	DSR 2013	Description of items	Qty	Unit	Rate	Amount
1	2.8	Earth work in excavation by mechanical means (Hydraulic excavator) / manual means in foundation trenches or drains (not exceeding 1.5 m in width or 10 sqm on plan) including dressing of sides and ramming of bottoms, lift upto 1.5 m, including getting out the excavated soil and disposal of surplus excavated soil as directed, within a lead of 50 m.				
	2.8.1	All kinds of soil.	50	cum	148.25	7412.5
2	2.25	Filling available excavated earth (excluding rock) in trenches, plinth, sides of foundations etc. in layers not exceeding 20cm in depth, consolidating each deposited layer by ramming and watering, lead up to 50 m and lift upto 1.5 m.	50	cum	101.50	5075
3	4.1	Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - All work up to plinth level :				
	4.1.11	1:5:10 (1 cement : 5 fine sand : 10 graded stone aggregate 40 mm nominal size)	10	cum	3407.25	34072.5
4	6.1	Brick work with F.P.S. bricks of class designation 75 in foundation and plinth in:				
	6.1.2	Cement mortar 1:6 (1 cement : 6 coarse sand)	20	cum	4646.50	92930
5	6.4	Brick work with F.P.S. bricks of class designation 75 in				

		superstructure above plinth level up to floor V level in all shapes and sizes in :				
	6.4.2	Cement mortar 1:6 (1 cement : 6 coarse sand)	30	cum	5325.10	159753
6	16.18	Fencing with angle iron post placed at required distance embedded in cement concrete blocks, every 15th post, last but one end post and corner post shall be strutted on both sides and end post on one side only and provided with horizontal lines and two diagonals interwoven with horizontal wires, of barbed wire 9.38 kg per 100 m (minimum) between the two posts fitted and fixed with G.I. staples, turn buckles etc. complete. (Cost of posts, struts, earth work and concrete work to be paid for separately) :- Payment to be made per metre cost of total length of barbed wire used.				
	16.18.1	With G.I. barbed wire	21000	metre	12.50	262500
7	16.53	Providing and fixing concertina coil fencing with required dia 610 mm(having 15 nos. round per 6 metre length) up to 3m height of wall with existing angle iron 'Y' shaped placed 2.4 m or 3.00 m apart and with 9 horizontal R.B.T. stud tied with G.I. staples and G.I. clips to retain horizontal including necessary bolts or G.I. barbed wire tied to angle iron all complete as per direction of Engineer-in-charge with reinforced barbed tape(R.B.T.) / Spring core (2.5mm thick) wire of high tensile strength of 165 kg/ sq.mm with tape (0.52 mm thick) and weight 43.478gm/ metre (cost of M.S. angle, C.C. blocks shall be paid separately)	3500	metre	284.10	994350
		Total				1556093.00

	Add 4% on DSR items				62243.72
	Total				1618336.72

	Contingencies @ 5%				80916.84
	Grand Total				1699253.56

5:RECARPETING OF INTERNAL ROAD AT NIPER, S.A.S. Nagar, Mohali

S. No	DSR ref	Description of items	Qty	Unit	Rate	Amount
1	NS	Providing and applying tack coat using hot straight run bitumen of grade 80/ 100 including heating the bitumen, spraying the bitumen with mechanically operated spray unit fitted on bitumen boiler, cleaning and preparing the existing road surface as per specifications :				
a		On bituminous surface @ 0.50 Kg / sqm.	39100	sqm	40.00	1564000.00
2	NS	Providing and laying semi-dense bituminous concrete close graded using crushed stone aggregates of specified grading, premixed with bituminous binder and filler, transporting the hot mix to work site by tippers, laying with paver finisher equipped with electronic sensor to the required grade, level and alignment and rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction and density as per specification, complete and as per directions of Engineer-in-Charge.				
		25mm compacted thickness with bitumen of grade VG-30 @ 5% (percentage by weight of total mix) and lime filler @ 2% (percentage by weight of Aggregate) prepared in batch Type Hot Plant of 100-120 TPH capacity.	39100	Sqm	270.00	10557000.00
		Note : 1. Design mix of SDBC close graded shall be submitted prior				

		to the procurement. Approval from the Engineer-in-Charge shall be sought before the execution of the work.				
3	NS	Providing and laying 60mm thick factory made cement concrete interlocking paver block of M -30 grade made by block making machine with strong vibratory compaction and of approved size and design/ shape laid in required colour and pattern over and including 50mm thick compacted bed of coarse sand, filling the joints with coarse sand etc. all complete as per the direction of Engineer-in-Charge.	7000	sqm	800	5600000.00
4	NS	Providing and laying at or near ground level factory made kerb stone of M-25 grade cement in position to the required line, level and curvature jointed with cement mortar 1:3 (1 cement: 3 coarse sand) including making joints with or without grooves (thickness of joints except at sharp curve shall not to more than 5mm) including making drainage opening wherever required complete etc. as per direction of Engineer-in-charge (length of finished kerb edging shall be measured for payment). (Precast C.C. kerb stone shall be approved by Engineer-in-Charge).	100	cum	5500.00	550000.00
5	NS	Taking our the existing kerb stones and relaying the same in position to required line, level and curvature jointed with cement mortar 1:3.	15	cum	1500.00	22500.00
		Total				18293500.00
		Contigencies @5%				914675.00
		Grand Total				19208175.00

NOTE:-THE COST AND TIME OF THE PROJECT IS LIABLE TO REVISION DUE TO PROBABLE ESCALATION IN COST OF CONSTRUCTION APART FROM REASONS SUCH AS CHANGE IN SCOPE,AREA,DESIGN AND SPECIFICATIONS ETC.

6:Solar Water Heating System for New hostel (under construction)

S. No	Description of items	Quantity	Unit	Rate	Amount
1	Solar water heating system capacity 1000 litre per day including piping and cold water tank and accessories	7	Unit	310000	2170000
2	Solar water heating system capacity 500 litre per day including piping and cold water tank and accessories	1	Unit	160000.00	160000
	Total				2330000.00
	Contigencies @ 3%				69900.00
	Grand Total				2399900.00

7: ESTIMATE FOR SEGREGATION OF INSTITUTIONAL AREA AND RESIDENTIAL AREA AT

NIPER S.A.S. NAGAR

(FOR 10 METERS)

S. No	DSR	Description of items	Qty	Unit	Rate	Amount
1	2.6	Earth work in excavation by mechanical means (Hydraulic excavator) / manual means over areas (exceeding 30cm in depth. 1.5m in width as well as 10 sqm on plan) including disposal of excavated earth, lead upto 50m and lift upto 1.5m, disposed earth to be levelled and neatly dressed.				
	2.6.1	All kinds of soil	3.60	Cum	146.50	527.40
2	2.25	Filling available excavated earth (excluding rock) in trenches, plinth, sides of foundations etc. in layers not exceeding 20cm in depth, consolidating each deposited layer by ramming and watering, lead up to 50 m and lift upto 1.5 m.	3.60	Cum	101.50	365.40
3	4.1	Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - All work up to plinth level :				
a	4.1.3	1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size)	0.41	Cum	4921.70	2017.90
b	4.1.11	1:5:10 (1 cement : 5 fine sand : 10 graded stone aggregate 40 mm nominal size)	0.60	Cum	3407.25	2044.35
4	4.10	Providing and laying damp-proof course 40mm thick with cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 12.5mm nominal size).	2.30	Sqm	220.60	507.38
5	6.1	Brick work with F.P.S. bricks of class				

		designation 75 in foundation and plinth in:				
	6.1.2	Cement mortar 1:6 (1 cement : 6 coarse sand)	2.59	Cum	0.625	1.62
6	6.4	Brick work with F.P.S. bricks of class designation 75 in superstructure above plinth level up to floor V level in all shapes and sizes in :				
	6.4.2	Cement mortar 1:6 (1 cement : 6 coarse sand)	1.38	Cum	5325.10	7348.64
7	10.25	Steel work welded in built up sections/ framed work including cutting, hoisting, fixing in position and applying a priming coat of approved steel primer using structural steel etc. as required.				
	10.25.2	In gratings, frames, guard bar, ladder, railings, brackets, gates and similar works.	380	Kg	86.50	32870.00
		CEMENT PLASTER (IN COARSE SAND)				
8	13.4	12 mm cement plaster of mix :				
	13.4.1	1:4 (1 cement: 4 coarse sand)	12	Sqm	153.85	1846.20
9	13.5	15 mm cement plaster on rough side of single or half brick wall of mix :				
	13.5.1	1:4 (1 cement: 4 coarse sand)	9	Sqm	178.60	1607.40
10	13.46	Finishing walls with Acrylic Smooth exterior paint of required shade :				
	13.46.1	New work (Two or more coat applied @ 1.67 ltr/10 sqm over and including base coat of water proofing cement paint applied @ 2.20 kg/ 10 sqm).	21	Sqm	78.10	1640.10
11	13.61	Painting with synthetic enamel paint of approved brand and manufacture to give an even shade :				
a	13.61.1	Two or more coats on new work	21	Sqm	63.05	1324.05

		Total	Rs. -	52100.43
		Add 4% on DSR items	Rs. -	2084.02
		Total cost for 10 meters	Rs. -	54184.45

For 485 meters length = 54184.45 X485 = Rs. - **2627945.82**

10

Say Rs. - **2627946.00**

8.: ROUGH ESTIMATE FOR DEVELOPMENT OF SPORT INFRASTRUCTURE AT NIPER,

S.A.S NAGAR

S. No.	Description	Area (Sqm)	Unit	Rate	Amount
1	Synthetic Tennis court with Acrylic coating on 100mm asphalt pavement as per drawings attached.	669	Sqm	3800	2542200.00
2	Grass Tennis court with 12mm 100mm top soil on 50mm compact concrete as per drawings attached.	669	Sqm	2800	1873200.00
3	M.S. Fencing with angle iron 50 × 50 × 4mm all around two tennis court 3.5 height	183	RMT	5500	1006500.00
4	Two Basket court with 100 mm thick PCC with hardener as per drawings attached	2160	Sqm	1800	3888000.00
5	Two Volleyball court as per 12mm 100mm top soil on 50mm compact concrete as per drawings attached.	1498	Sqm	1200	1797600.00
6	Two Badminton courts as per 12mm 100mm top soil on 50mm compact				

	concrete as per drawings attached.	166	Sqm	1200	199200.00
7	Running track with top coat on 40 mm rubber granules on 100mm compacted asphalt.	4000	Sqm	1200	4800000.00
8	Toilet block with RCC coloumn & slab 1st class electrical & public health.	85	Sqm	17500	1487500.00
9	M.S. stand for sitting as per detailed specification	300	Sqm	6000	1800000.00
	Total Infrastructure Cost -				19394200.00
	Consultancies 5%				969710.00
	G. Total				20363910.00
	Say Rs. Cr				2.04

9: BORING AND INSTALLATION OF DEEP TUBEWELL AT NIPER, S.A.S. Nagar,

Mohali, Sector - 67

S. No	Description of items	Qty	Unit	Rate	Amount
1	mobilization and demobilization of drilling equipment and other ancillary items to site	LS	Job	25000.00	25000
2	Drilling with standard mechanical reverse rotaory rig from ground level with suitable cutting bits in all kind of soil, morrum, soft rock etc upto approximately 480 mtr including the of cost of digging channels trenches etc. dia of bore will be 600mm.	480	metre	2150.00	1032000.00
3	Supply of MS pipes conforming to IS-4270:1992(with upto date amendments)				
a	300 mm nominal bore	200	metre	3700.00	740000.00
b	200 mm nominal bore	220	metre	3100.00	682000.00
c	Supply of 200 mm i/d stainless steel stainer	60	metre	15000.0	900000.00

				0	
4	Lowering of ms pipe in bore hole including ss stainers in position including cost of tools and plant				
a	300 mm nominal bore	200	metre	150.00	30000.00
b	200 mm nominal bore	220	metre	100.00	22000.00
c	200 mm nominal bore stainless steel stainer	60	metre	200.00	12000.00
5	Supply and fixing reducer socket 300 mmx 200mm	1	No	1800.00	1800.00
6	supply and fixing ms special socket for ss stainers	20	No	900.00	18000.00
7	Supply and fixing ms centering guides complete	20	No	200.00	4000.00
8	Supply and fixing ms bail plug to 200mm dia blind pipe	1	No	5200.00	5200.00
9	Supply and fixing ms clamp suitable to fit to housing pipe	1	No	2000.00	2000.00
10	Supply and fixing ms well cap to fix over housing pipe	1	No	800.00	800.00
11	Supply deodar wooden box made of 12mm thick wood with lid to preserve the samples received from the bore at site	1	No	600.00	600.00
12	Supply and laying rounded washed gravels 3mm to 6mm size packed all around the housing pipe	135	cum	1700.00	229500.00
13	Development and stablizing of tubewell with air compressor of 500 cfm @ 600 ps	50	Hours	2500.00	125000.00
	Development and stablizing of tubewell with submersible motor of 45 HP, 3 phase	50	Hours	1500.00	75000.00
14	Supply and installation of submersible pump motor 45 HP, 3 Phase , BIS rating.	1	No	125000.00	125000.00
15	Supply and fixing three core 16 sqmm copper cable	250	metre	425.00	106250.00

16	Supply and installing suitable starter (star delta) for 45 HP 3 phase motor.	1	No	90000.00	90000.00
17	Supply and fixing delivery pipe 110mm dia GI, class C	170	metre	1100.00	187000.00
18	Providing and laying centrifugal cast spun pipe LA class 110mm dia including jointing and excavation complete	300	metre	1000.00	300000.00
19	P/F sluice valve 110mm dia class II complete.	5	No	4500.00	22500.00
20	Laying PVC insulated aluminium armoured cable size 95 sqmm four core.	300	metre	425.00	127500.00
21	Boring and Installation of shallow tubewell.	1	No	120000.00	120000.00
22	GI earthing plate 600 x 600 x 6mm with accessories.	2	Set	7500.00	15000.00
	Total				6078150.00
	Contingencies @ 5%				303907.50
	Grand Total				6382057.50

NOTE:-THE COST AND TIME OF THE PROJECT IS LIABLE TO REVISION DUE TO PROBABLE ESCALATION IN COST OF CONSTRUCTION APART FROM REASONS SUCH AS CHANGE IN SCOPE,AREA,DESIGN AND SPECIFICATIONS ETC.

10: DRAINAGE SYSTEM FOR RAIN WATER ALONG THE ROAD WHERE REQUIRED IN THE PREMISES AT NIPER, S.A.S. Nagar, Mohali, Sector - 67

S. No	DSR 2013	Description of items	Qty	Unit	Rate	Amount
1	2.8	Earth work in excavation by mechanical means (Hydraulic excavator) / manual means in foundation trenches or drains (not exceeding 1.5 m in width or 10 sqm on plan) including dressing of sides and ramming of bottoms, lift upto 1.5 m, including getting out the excavated soil and disposal of surplus excavated soil as directed, within a lead of 50 m.				
	2.8.1	All kinds of soil.	1425	cum	148.25	211256.25

2	2.25	Filling available excavated earth (excluding rock) in trenches, plinth, sides of foundations etc. in layers not exceeding 20cm in depth, consolidating each deposited layer by ramming and watering, lead up to 50 m and lift upto 1.5 m.	1425	cum	101.50	144637.50
3	2.26	Extra for every additional lift of 1.5 m or part thereof in.				
	2.26.1	All kinds of soil.	500	cum	41.75	20875.00
4	19.6	Providing and laying non-pressure NP2 class (light duty) R.C.C. pipes with collars jointed with stiff mixture of cement mortar in the proportion of 1:2 (1 cement : 2 fine sand) including testing of joints etc. complete :				
	19.6.7	600 mm dia. R.C.C. pipe	990	metre	1358.65	1345063.50
5	19.29	Constructing brick masonry road gully chamber 110x50x77.5 cm with bricks of class designation 75 in cement mortar 1:4 (1 cement : 4 coarse sand) including 500x450 mm pre-cast R.C.C. horizontal grating with frame and vertical grating complete as per standard design :				
	19.29.1	With F.P.S. bricks	24	each	7166.70	172000.80
		Total				1893833.05
		Add 4% on DSR items				75753.32
		Total				1969586.37

		Contigencies @ 5%				98479.32
		Grand Total				2068065.69

NOTE:-THE COST AND TIME OF THE PROJECT IS LIABLE TO REVISION DUE TO PROBABLE ESCALATION IN COST OF CONSTRUCTION APART FROM REASONS SUCH AS CHANGE IN SCOPE,AREA,DESIGN AND SPECIFICATIONS ETC.

11. ESTIMATE FOR CONSTRUCTION OF STORE YARD FOR ENGG STORE REAR SIDE OF ENGG SECTION AT NIPER

S. No	DSR Ref	Description of Item	Qty	A/U	Rate	Amount
1	2.8	Earth work in excavation by mechanical means (Hydraulic excavator) / manual means in foundation trenches or drains (not exceeding 1.5 m in width or 10 sqm on plan) including dressing of sides and ramming of bottoms, lift upto 1.5 m, including getting out the excavated soil and disposal of surplus excavated soil as directed, within a lead of 50 m.				
	2.8.1	All kinds of soil.	180	cum	148.25	26685.00
2	4.1	Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - All work up to plinth level :				
	4.1.10	1:5:10 (1 cement : 5 coarse sand : 10 graded stone aggregate 40 mm nominal size)	60	cum	3672.80	220368.00
3	4.10	Providing and laying damp-proof course 40mm thick with cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 12.5mm nominal size).	17	sqm	220.60	3750.20
4	4.13	Applying a coat of residual petroleum bitumen of penetration 80/100 of approved quality using 1.7kg/sqm on damp proof course after cleaning with brushes and finally with a piece of cloth lightly soaked in kerosene oil.	17	sqm	108.75	1848.75
5	4.17	Making plinth protection 50mm thick of cement concrete 1:3:6 (1 cement : 3 coarse sand : 6graded stone aggregate 20mm nominal size) over 75mm bed by dry brick ballast 40mm nominal size well				

		rammed and consolidated and grouted with fine sand including finishing the top smooth	50	sqm	378.95	18947.50
6	5.1	Providing and laying in position specified grade of reinforced cement concrete excluding the cost of centering, shuttering, finishing and reinforcement - All work up to plinth level :				
	5.1.2	1:1.5:3 (1 cement : 1.5 coarse sand : 3 graded stone aggregate 20 mm nominal size)	2	cum	5552.25	11104.50
7	5.9	Centering and shuttering including strutting, propping etc. and removal of form for :				
	5.9.5	Lintels, beams, plinth beams, girders, bressumers and cantilevers.	10	sqm	309.80	3098.00
8	5.22	Reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding all complete.				

	5.22.6	Thermo-Mechanically Treated bars.	100	kg	66.50	6650.00
9	6.1	Brick work with F.P.S. bricks of class designation 75 in foundation and plinth in:				
	6.1.2	Cement mortar 1:6 (1 cement : 6 coarse sand)	40	cum	4646.50	185860.00
10	6.4	Brick work with F.P.S. bricks of class designation 75 in superstructure above plinth level up to floor V level in all shapes and sizes in :				
	6.4.2	Cement mortar 1:6 (1 cement : 6 coarse sand)	50	cum	5325.10	266255.00
11	10.2	Structural steel work riveted, bolted or welded in built up sections, trusses and framed work, including cutting, hoisting, fixing in position and applying a priming coat of approved steel primer all				

		complete:	1500	kg	73.65	110475.00
12	10.5	Providing and fixing 1mm thick M.S. sheet door with frame of 40x40x6mm angle iron and 3mm M.S. gusset plates at the junctions and corners, all necessary fittings complete, including applying a priming coat of approved steel primer.				
	10.5.1	Using M.S. angels 40x40x6 mm for diagonal braces.	15	sqm	2942.00	44130.00
13	10.25	Steel work welded in built up sections/ framed work including cutting, hoisting, fixing in position and applying a priming coat of approved steel primer using structural steel etc. as required.				
	10.25.2	In gratings, frames, guard bar, ladder, railings, brackets, gates and similar works.	200	kg	86.50	17300.00
14	11.7	Cement concrete pavement with 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size) including finishing complete.	33	cum	5188.60	171223.80
15	13.1	12 mm cement plaster of mix :				
	13.1.2	1:6 (1 cement: 6 fine sand)	215	sqm	133.85	28777.75
16	13.2	15 mm cement plaster on the rough side of single or half brick wall of mix :				
	13.2.2	1:6 (1 cement: 6 fine sand)	215	sqm	154.70	33260.50
17	13.37	White washing with lime to give an even shade:				
	13.37.1	New work (three or more coats)	215	sqm	14.35	3085.25
18	13.44	Finishing walls with water proofing cement paint of required shade :				
	13.44.1	New work (Two or more coats applied @ 3.84 kg/10 sqm).	215	sqm	54.40	11696.00
19	13.5	Applying priming coat :				

	13.50.1	With ready mixed pink or Grey primer of approved brand and manufacture on wood work (hard and soft wood)	100	sqm	30.75	3075.00
20	13.61	Painting with synthetic enamel paint of approved brand and manufacture to give an even shade :				
	13.61.1	Two or more coats on new work	100	sqm	63.05	6305.00
21	NS	Providing and fixing complete aluminium zinc pre-coated sheet thick 0.50 mm	120	sqm	600.00	72000.00
		Total				1245895.25
		Add 4% on DSR items				46955.81
		Grand Total				1292851.06

NOTE:-THE COST AND TIME OF THE PROJECT IS LIABLE TO REVISION DUE TO PROBABLE ESCALATION IN COST OF CONSTRUCTION APART FROM REASONS SUCH AS CHANGE IN SCOPE,AREA,DESIGN AND SPECIFICATIONS ETC

12: ESTIMATE FOR RAIN WATER HARVESTING AT NIPER

(Building : Dosage Form scale up plant, GLP, NBC, MBA, Heritage, New and Old Boys Hostel, Admn Block and Girls Hostel)

S. No.	DSR 2013	Description of item	Qty	Unit	Rate	Amount
1	2.6	Earth work in excavation by mechanical means (Hydraulic excavator) / manual means over areas (exceeding 30cm in depth. 1.5m in width as well as 10 sqm on plan) including disposal of excavated earth, lead upto 50m and lift upto 1.5m, disposed earth to be levelled and neatly dressed.				
	2.6.1	All kinds of soil	665	Cum	146.50	97422.500
2	2.8	Earth work in excavation by mechanical means (Hydraulic excavator) / manual means in				

		foundation trenches or drains (not exceeding 1.5 m in width or 10 sqm on plan) including dressing of sides and ramming of bottoms, lift upto 1.5 m, including getting out the excavated soil and disposal of surplus excavated soil as directed, within a lead of 50 m.				
	2.8.1	All kinds of soil.	1612	Cum	148.25	238979.000
3	2.26	Extra for every additional lift of 1.5 m or part thereof in.				
	2.26.1	All kinds of soil.	2281	Cum	41.75	95231.75
4	4.1	Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - All work up to plinth level :				
a	4.1.3	1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size)	15	Cum	4921.70	73825.50
b	4.1.11	1:5:10 (1 cement : 5 fine sand : 10 graded stone aggregate 40 mm nominal size)	200	Cum	3407.25	681450.00
5	5.1	Providing and laying in position specified grade of reinforced cement concrete excluding the cost of centering, shuttering, finishing and reinforcement - All work up to plinth level :				
	5.1.2	1:1.5:3 (1 cement : 1.5 coarse sand : 3 graded stone aggregate 20 mm nominal size)	107	Cum	5552.25	594090.75
6	5.9	Centering and shuttering including strutting, propping etc. and removal of form for :				
	5.9.3	Suspended floors, roofs, landings, balconies and access platform.	400	sqm	371.80	148720.00
7	5.22	Reinforcement for R.C.C. work				

		including straightening, cutting, bending, placing in position and binding all complete.				
	5.22.3	Cold twisted bars	10000	kilogram	66.50	665000.00
8	6.1	Brick work with F.P.S. bricks of class designation 75 in foundation and plinth in:				
	6.1.2	Cement mortar 1:6 (1 cement : 6 coarse sand)	450	cum	4646.50	2090925.00
9	6.12	Half brick masonry with F.P.S. brick of class designation 75 in foundations and plinth in.				
	6.12.1	Cement mortar 1:3 (1 cement : 3 coarse sand)	130	sqm	597.25	77642.50
10	13.1	12 mm cement plaster of mix :				
	13.1.2	1:6 (1 cement: 6 fine sand)	1500	sqm	133.85	200775.00
11	13.7	12 mm cement plaster finished with a floating coat of neat cement of mix :				
	13.7.1	1:3 (1 cement: 3 fine sand)	2000	sqm	192.20	384400.00
12	13.8	15 mm cement plaster on rough side of single or half brick wall finished with a floating coat of neat cement of mix :				
	13.8.1	1:3 (1 cement: 3 fine sand)	700	sqm	217.55	152285.00
13	16.3	Supplying and stacking at site.				
a	16.3.1	90 mm to 45 mm size stone aggregate.	450	cum	1121.90	504855.00
b	16.3.3	53 mm to 22.4 mm size stone aggregate.	400	cum	1296.15	518460
c	16.3.6	Stone screening 13.2 mm nominal size (Type A).	200	cum	1410.20	282040.00
d	16.3.7	Stone screening 11.2 mm nominal size (Type B).	150	cum	1453.80	218070.00

14	19.1	Providing, laying and jointing glazed stoneware pipes class SP-1 with stiff mixture of cement mortar in the proportion of 1:1 (1 cement : 1 fine sand) including testing of joints etc. complete :				
a	19.1.2	150mm dia metre	600	metre	304.90	182940.00
b	19.1.4	250mm dia metre	600	metre	676.75	406050.00
c	19.1.5	300mm dia metre	1300	metre	747.90	972270.00
15	NS	Boring upto 80mtr depth and providing PVC Pipe and stainer dia 200 mm complete with cap and	10	Nos	300000.00	3000000.00
		development				
16	NS	Supply and stacking screening aggregate 3-6 mm size	150	cum	2000.00	300000.00
17	NS	Laying stone aggregate in filter bed	1200	cum	150.00	180000.00
		Total				12065432.00
		Add 4% on DSR items				460266.17
		Total				12525698.17
		Contigencies @ 3%				375770.95
		Grand Total				12901469.12

NOTE:-THE COST AND TIME OF THE PROJECT IS LIABLE TO REVISION DUE TO PROBABLE ESCALATION IN COST OF CONSTRUCTION APART FROM REASONS SUCH AS CHANGE IN SCOPE, AREA, DESIGN AND SPECIFICATIONS, ETC.

13: CONSTRUCTION OF SEWERAGE TREATMENT PLANT FOR 75000 Lt. CAPACITY

S.No	DSR 2013	Description	Qty	Unit	Rate	Amount
1	2.8	Earth work in excavation by mechanical means (Hydraulic excavator) / manual means in foundation trenches or drains (not exceeding 1.5 m in width or 10 sqm on plan) including dressing of sides and ramming of bottoms, lift upto 1.5 m, including getting out the excavated soil and disposal of surplus excavated soil as directed, within a lead of 50 m.				
	2.8.1	All kinds of soil.	830	Cum	148.45	123213.50
2	2.25	Filling available excavated earth (excluding rock) in trenches, plinth, sides of foundations etc. in layers not exceeding 20cm in depth, consolidating each deposited layer by ramming and watering, lead up to 50 m and lift upto 1.5 m.	370	Cum	101.50	37555.00
3	2.26	Extra for every additional lift of 1.5 m or part thereof in.				
	2.26.1	All kinds of soil.	600	Cum	41.75	25050.00
4	4.1	Providing and laying in position cement concrete of specified grade excluding the cost of centering and				

		shuttering - All work up to plinth level :				
	4.1.8	1:4:8 (1 Cement : 4 coarse sand : 8 graded stone aggregate 40mm nominal size).	30	Cum	3920.68	117620.40
5	5.9	Centering and shuttering including strutting, propping etc. and removal of form for :				
	5.9.1	Foundations, footings, bases of columns, etc. for mass concrete.	40	Sqm	186.40	7456.00
	5.9.2	Walls (any thickness) including attached pilasters, butteresses, plinth and string courses etc.	600	Sqm	334.50	200700.00
	5.9.3	Suspended floors, roofs, landings, balconies and access platform.	140	Sqm	371.80	52052.00
	5.9.5	Lintels, beams, plinth beams, girders, bressumers and cantilevers.	30	Sqm	309.80	9294.00
6	5.22	Reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding all complete.				
	5.22.6	Thermo-Mechanically Treated bars.	16500	Kg	66.50	1097250.00
7	5.37	Providing and laying in position ready mixed concrete manufactured in fully automatic batching plant and transported to site of work in transit mixer for a lead up to 10kms having continuous agitated mixer, manufactured as per mix design of specified grade for	130	Cum	6701.45	871188.50

		reinforced cement concrete work including pumping of R.M.C. from transit mixer to site of laying , excluding the cost of centering, shuttering finishing and reinforcement including cost of admixtures in recommended proportions as per IS : 9103 to accelerate/ retard setting of concrete, improve workability without impairing strength and durability as per direction of the Engineer - in - charge. M-25 grade Reinforced cement concrete by using 410kg of cement per cum of concrete. All works up to floor V level.				
8	6.1	Brick work with F.P.S. bricks of class designation 75 in foundation and plinth in:				
	6.1.2	Cement mortar 1:6 (1 cement : 6 coarse sand)	12	Cum	4646.50	55758.00
9	12.21	Providing gola 75x75 mm in cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 stone aggregate 10mm and down gauge) including finishing with cement mortar 1:3 (1 cement : 3 fine sand) as per standard design :				
	12.21.1	In 75x75mm deep chase	90	Mtr	127.95	11515.50
10	13.4	12 mm cement plaster of mix :				
	13.4.1	1:4 (1 cement: 4 coarse sand)	400	Sqm	153.85	61540.00
11	20.2	Boring, providing And				

		installing bored cast-in-situ reinforced cement concrete pile of specified diameter and length below the pile cap M 35 in cement concrete, to carry a safe working load not less than specified, excluding the cost of steel reinforcement but including the cost of boring with, bentonite solution And temporary casing Of appropriate length for setting out and removal of same and the length of the pile to be embedded in the pile cap etc. all complete, including removal of excavated earth with all lifts and leads (Length of pile for payment shall be measured upto bottom of pile cap).				
	20.2.1	300 mm dia piles	100	Mtr	1424.75	142475.00
12	NS	P/L 2 layers of FRP (Fibre Reinforced each layer having thickness 0.8mm including cleaning of surface, drying of making even the surface including flushing with the top of the tank, providing overlap all complete as per the direction of Engineer-in-Charge)	40	No	700.00	28000.00
13	NS	P/F of MS footrest,20mm round nipple by chipping of concrete & welding to the reinforcement making good the surface all complete as per the direction of Engineer-	6	No	850.00	5100.00

		in-Charge.				
14	NS	P/F RCC manhole cover of size 560 x 560mm including complete as per direction of Engineer-in-Charge.	8	No	3600.00	28800.00
15	NS	Providing and fixing Sewerage treatment plant capacity 75000 lt in 20 hr. of water purification.	1	No	2500000.00	2500000.00
		TOTAL				5374567.90
		Add 4% on DSR item				112506.72
		GRAND TOTAL				5487074.62

NOTE:-THE COST AND TIME OF THE PROJECT IS LIABLE TO REVISION DUE TO PROBABLE ESCALATION IN COST OF CONSTRUCTION APART FROM REASONS SUCH AS CHANGE IN SCOPE,AREA,DESIGN AND SPECIFICATIONS ETC.

14: Rough Cost Estimate for Extension of Girls Hostel

BASED ON CPWD PAR 2007

S No	Description	Area (sqm)	Unit	Rate/ sqm	Amount	Remarks
(A)	Civil Work					
1	Hostel Block with RCC framed Structure	1350	Sqm	9,730	13,135,500	CPWD plinth area rate 2007 (1.1.2,
2	Fire Fighting (with wet riser system)	1350	Sqm	300	405,000	1.4.1
	Total for (A)				13,540,500	
(B)	Services					
3	Internal Water supply& sanitary		@10% of "A"		1,354,050	
4	external service connection		@5% of "A"		677,025	
5	Internal Electric installations		@ 12.5% of "A"		1,692,563	
6	Lightening conductors		@ 0.5% of "A"		67,703	
7	Telephone conduits		@ 0.5% of "A"		67,703	
8	Computer conduits		@ 0.5% of "A"		67,703	
Total for (B)					3,926,745	
Total (1 to 8)					17,467,245	

(C)	Add 53%					9,257,640
Building work total cost						26,724,885
(D)	Additional Services					
	Furniture, Water, coolers, Geysers, air	440	@ 10% of Bldg			2,672,488
	collers & other Misc items		cost			
	Solar water heating system capacity 1000 litre per day including piping and cold water tank and accessories	6	Unit	310,000		1,860,000
	Internal road / path	1350	sqm	83		171,437
						6.2 + 53%
	Distribution line 100 dia or blow.	1350	sqm	46		95,013
						6.4.1 + 53%
Total for (D)						4,798,938
Total Infrastructure cost (A+B+C+D)						31,523,823
Contingencies @ 5%						1,576,191
G. Total						33,100,015
						Say 3.31 crores

NOTE:- THE COST AND TIME OF THE PROJECT IS LIABLE TO REVISION DUE TO PROBABLE ESCALATION IN COST OF CONSTRUCTION APART FROM REASONS SUCH AS CHANGE IN SCOPE, AREA, DESIGN AND SPECIFICATION, ETC.

15:ESTIMATE OF WIRE GAUGE DOORS AND WINDOWS SHUTTERS FOR NEW BOYS (CHENAB HOSTEL)

SNO	DSR 2012	DESCRIPTION	QTY	UNIT	RAT E	AMOUN T
1	NS	Providing and fixing 35mm thick wire gauze shutters using galvanised M.S. wire gauze of average width of aperture 1.4mm with wire of dia. 0.63 mm for doors, windows and clerestory windows including ISI marked M S pressed butt hinges bright finished with necessary screws, wherever required :				
		Kiln seasoned and chemically treated Hollock wood.	459.5	sqm	1,940.00	891,430.00
2	9.59	Providing and fixing ISI marked oxidised M.S. single acting spring hinges with necessary screws etc. complete :				
	9.59.1	150 mm	175	each	147.35	25786.25
3	9.97	Providing and fixing aluminium tower bolts ISI marked anodised (anodic coating not less than grade AC 10 as per IS : 1868) transparent or dyed to required colour or shade with necessary screws etc. complete :				
	9.97.3	200x10 mm	175	each	71.05	12433.75
	9.97.4	150x10 mm	300	each	59.00	17700.00
	9.97.5	100x10mm	375	each	46.25	17343.75
		Providing and fixing aluminium handles ISI marked anodised (anodic coating not less than grade AC 10 as per IS : 1868) transparent or dyed to required colour or shade with necessary screws etc. complete :				

4	9.100.					
	9.100.1	125 mm	175	each	62.50	10937.50
	9.100.2	100 mm	150	each	49.55	7432.50
	9.100.3	75 mm	150	each	41.90	6285.00
5	13.61	Painting with synthetic enamel paint of approved brand and manufacture to give an even shade :				
	13.61.1	Two or more coats on new work	600	sqm	53.85	32310
6	13.50.	Applying priming coat :				
	13.50.1	With ready mixed pink or Grey primer of approved brand and manufacture on wood work (hard and soft wood)	600	sqm	25.85	15510.00
7	9.21	Providing and fixing ISI marked flush door shutters conforming to IS: 2202 (Part I) non-decorative type, core of block board construction with frame of 1st class hard wood and well matched commercial 3 ply veneering with vertical grains or cross bands and face veneers on both faces of shutters :				
	9.21.1	35 mm thick including ISI marked Stainless Steel butt hinges with necessary screws.	10	sqm	1578.30	15783.00
8	9.9	Providing and fixing glazed shutters for doors, windows and clerestory windows using 4 mm thick float glass panes including black enamelled ISI marked M.S butt hinges with necessary screws.				
	9.9.2	Kiln seasoned and chemically treated Hollock wood				
	9.9.2.1	35 mm thick	10	sqm	1830.40	18304.00

9	NS	Providing & fixing aluminium sheet 24 guage	30	sqm	400.00	12000.00
10	10.5	Providing and fixing 1mm thick M.S. sheet door with frame of 40x40x6mm angle iron and 3mm M.S. gusset plates at the junctions and corners, all necessary fittings complete, including applying a priming coat of approved steel primer.				
10.5.1		Using M.S. angels 40x40x6 mm for diagonal braces.	10	sqm	2551.45	25514.50
						1,108,770.25
ADD on DSR ITEMS 11.41%						23429.32
						1132199.57
						SAY 11.32 LACS

16:

Setting up of Dosage Form Pilot Plant (remaining work)	1.00
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17: ESTIMATE FOR SITC OF LIFT (02 NOS) FOR EXISTING 6 STOREYED BOYS HOSTEL : NIPER, S.A.S NAGAR

S. No	Description of items	Quantity	Unit	Rate	Amount
1	SITC of 8 Passengers Lifts (02 Nos) and Misc works	2	Unit	2350250	4700500
	Total				4700500.00

18: Construction of Research and Development Laboratory Block at NIPER(Seven Storey with basement for services)

(Building works incl. Air Conditioning and Lab. Furniture)

BASED ON PLINTH AREA CPWD RATES AS ON 01.10.2012 (updated as on 30.12.2014)

S No	Description	Area (sqm)	Unit	Rate/ sqm	Amount	Remarks
(A)	Civil Work					
1	Basement floor with 3.95mtr height with mastic asphalt water proofing.	2000	Sqm	23,500	47,000,000	CPWD plinth area rate 2012 (1.3.1, 1.3.2.1)
2	Multistorey laboratory block with RCC Framed structure	14000	Sqm	23,500	329000000	CPWD plinth area rate 2012 (1.1.1)
3	Fire Fighting (with wet riser system)	16000	Sqm	500	8,000,000	1.4.1
4	Fire Alarm system	16000	Sqm	500	8,000,000	1.5.2
	Total for (A)				392000000	
(B)	Services					
5	Internal Water supply& sanitary		@10% of "A"		39,200,000	
6	External service connection		@5% of "A"		19,600,000	
7	Internal Electric installations		@15% of "A"		58,800,000	
8	Power wiring		@ 4% of "A"		15,680,000	

9	Lightening conductors		@ 0.33% of "A"		1,293,600	
10	Computer conduits		@ 0.5% of "A"		1,960,000	
11	Telephone conduits		@ 0.5% of "A"		1,960,000	
	Total for (B)				138493600	
	Total (1 to 11)				530493600	
	Building work total cost				530493600	
(C)	Additional Services					
	Lift(13 passenger capacity)	2	Nos	292500 0	2,925,000	4.1.3
	Air Conditioning	14000	@ 40% of Area	4,500	25,200,000	
	Laboratory Furniture & miscellaneous items		@ 10% of bldg. cost (A)		39200000	

	Mechanical utility and allied services (lump sum)		Lump sum		30000000	
	Internal road / path	14000	sqm	145	2030000	6.2
	Distribution line 100 dia or blow.	14000	sqm	80	1120000	6.4.1
	Total for (C)				100475000	
	Total Infrastructure cost				630968600	

	(A+B+C)					
	Contigencies charges @ 3%				18,929,058	
	G. Total				649897658	
				Say	64.99	crores

NOTE :- THE COST AND TIME OF THE PROJECT IS LIABLE TO REVISION DUE TO PROBABLE ESCALATION IN COST OF CONSTRUCTION APART FROM REASONS SUCH AS CHANGE IN SCOPE, AREA, DESIGN AND SPECIFICATIONS ETC.

19: Construction of Incubator facilities at NIPER (Building works incl. Air Conditioning and Lab. Furniture)

BASED ON PLINTH AREA CPWD RATES AS ON 01.10.2012 (updated as on 30.12.2014)

S. No.	Ref	Description	Qty	Unit	Rate	Amount
A	1.1 (A)	RCC framed structure (1500 + 1500) sqm two blocks. 20 INCUBATOR.				
1	1.1.1 (A)	Floor ht. 3.35 mtr.	3000	Sqm	190000	570000000
2	1.2.4	Every 0.3 mt.higher of 0.6 mt. (on G.F. area only)	1500	Sqm	270.00	405000.00
3		Fire Fighting				
4	1.4.2	With sprinkler system	3000	Sqm	750.00	2250000.00
5		Fire Alarm System		Sqm		
6	1.5.2	Automatic Fire Alarm System	3000	Sqm	500.00	1500000.00
		Total				61155000.00
B		Add for Services				
7	3.1	Internal water supply & sanitary installations	4%			2446200.00
8	3.2	External service connections	5%			3057750.00
9	3.3	Internal electricinstallations	12½%			7644375.00
10	3.6.6	Computer conduiting	0.50%			305775.00
		Total				13454100.00
C		A.C. plant & Ducts, Chillers related accessories and misc services.	Lump sum			1250000.00

D		Furniture	10%			6115500.00
		Total Amount (A + B + C+ D)				93224600.00
11		Contigencies Charges @ 3%				2796738.00
		Grand Total				96021338.00
					Say Rs.	9.60 cr

NOTE :- THE COST AND TIME OF THE PROJECT IS LIABLE TO REVISION DUE TO PROBABLE ESCALATION IN COST OF CONSTRUCTION APART FROM REASONS SUCH AS CHANGE IN SCOPE, AREA, DESIGN AND SPECIFICATIONS ETC.

Annexures Expenditure (Cumulative) on Civil Works (Mtc. Works)

ACTION PLAN WITH TIMELINES FOR DEVELOPING INFRASTRUCTURE WITH RESPONSIBLE OFFICER/ DoP

9. (D)

(Proposed General Maintenance Budget for Engineering Services 2016-17)

Name of the services	Annexure a	Annexure b	Annexure c	Annexure d							Annexure V	TOTAL (In lacs)
	General Maintenance (In lacs)	Special/Major Repairs (In lacs)	Upgradation / Modification (In lacs)	AMC for special Services (In lacs)							Procurement of new tools & tackles (In lacs)	
				O & M for utilities	O & M for central AC Plant	water supply ETP running&ATTS olar water	Fire Services	Lifts	Generators	Precision a/c		
Civil	163.85	18.25	3.00			12.75					0.50	198.35
Electrical	51.60	15.25	19.00	10.00					4.00			99.85
Mechanical And Air conditioning	54.50	28.05	15.00		30.00		4.00	3.50		2.50	6.75	144.30
Electronics / Telecommunication Services	13.85											13.85
TOTAL	283.80	61.55	37.00	10.00	30.00	12.75	4.00	3.50	4.00	2.50	7.25	456.35

I - General Maintenance

Works

II - Special / Major Works.

III - Upgradation / Modification works.

IV - AMC for Special services.

V - Procurement of new tools and tackles.

Note: -

1. Fuels / diesel required for DG Sets / Major installations have not been included in this budget.
2. Electricity Bills have not been included.
3. Any emergency repair job / modification requested by faculty required to be executed during the period will be carried out at an extra cost after taking approval of competent authority.
4. The budgetary requirements projected for different Engg. Works will be interchangeable as per actual site requirements and urgency of job.

GENERAL MAINTENANCE _ CIVIL WORKS 2015-2016

Annexure - a

S. No.	Name of the Building	Nos.	Block/ Floor	Total Nos	Approx. Plinth area/unit in sqm	Total Plinth Area in sqm	Plinth Area Rate (Service charges) (A)	Plinth Area Rate (B)	TOTAL RATE (A + B)	TOTAL AMOUNT	
A	RESIDENTIAL BUILDINGS										
	Director's Residence	1	1	1	300	300	2.4 + 3574% (cost Index 3674%)	Repair charges 2.75+1437% (cost index 1537%)			
	Type VI houses	12	1	12	270	3240	2.4	2.75			
	Type V houses (Duplex)	22	1	22	200	4400	3574	1437			
	Type V houses (Multistorey)	5	4	20	173	3460					
	Type IV houses (Old)	6	1	6	101	606					
	Type IV houses (New)	6	4	24	99	2376					
	Type III houses (Old)	6	2	12	75	900					
	Type III houses (New)	6	4	24	72	1728					
	Married Students Hostel	1	3	3	315	945					

	Type II houses	1	3	3	248.50	745.5	88.1760	42.2675		
	TOTAL FOR HOUSES					18700.50	88.1760	42.2675	130.4435	2439358.67
B	HOSTELS									
	Boys Hostel I	1	1	1	3000	3000	3.10 + 3574% (cost Index 3674%)	Repair charges 3.55+1437% (cost index 1537%)		
	Boys Hostel II	1	1	1	4300	4300	3.1	3.55		
	Chenab Hostel	1	1	1	6064	6064				
	Girls Hostel	1	3	3	1550	4650	3574	1437		
	Trainee's Hostel	1	1	1	635	635	113.894	54.5635		
	Guest House	1	1	2	750	1500				
	TOTAL FOR HOSTELS					20149	113.8940	54.5635	168.4575	3394250.17
C	INSTITUTIONAL BUILDINGS (Technical)									
	Teaching & Research Blocks (A to F)	6	3	18	650	11700	6.85 + 3574% (cost Index 3674%)	Repair charges 7.85+1437% (cost index 1537%)		
	Teaching & Research Block G	1	2	2	650	1300	6.85	7.85		
	Teaching & Research Block	1	2	2	300	600	3574	1437		

	H									
	Teaching & Research Block I	1	2	2	450	900				
	Animal House	1	1	1	1700	1700				
	NTC (GLP)	1	1	1	700	700				
	TDC (Pilot Plant)	1	1	1	1867	1867				
	NBC	1	2	2	600	1200				
	NPFL	1	1	1	1100	1100				
	Dispensary	1	1	1	400	400				
	Infectious Centre	1	2	2	425	850	251.669	120.6545		
	TOTAL FOR INSTITUTIONAL BUILDINGS (Technical)					22317	251.6690	120.6545	372.3235	8309143.55
D	INSTITUTIONAL BUILDINGS (Official)									
	Lecture Halls	1	2	2	96	192	2.75 + 3574% (cost Index 3674%)	Repair charges 3.15+1437% (cost index 1537%)		
	MBA	1	2	2	750	1500	2.75	3.15		
	PHC	1	2	2	575	1150	3574	1437		
	Main store I	1	1	1	400	400				
	Main store II	1	1	1	600	600				
	Shops	4	1	4	13.19	52.76				

Over head tank	1	1	1	391	391
Secretariat	1	3	3	423.333	1270
Admn. Building	1	2	2	550	1100
Library	1	6	6	266.66	1600
Central Seminar Hall	1	1	1	155	155
Cafeteria & Community Centre	1	1	1	1659	1659
Auditorium & Convention Centre	1	1	1	1700	1700
Main gate, Security check post, Swimming Pool	1	1	1	1467	1467
Engineering Section	1	2	2	336	672
Utility Building	1	1	1	200	200
Pump house	1	1	1	12	12
Solvent Store	1	1	1	150	150
Substation & AC Plant	1	1	1	300	300
Underground Tank	1	1	1	337	337
Effluent Treatment plant	1	1	1	95	95

101.035

48.4155

TOTAL FOR INSTITUTIONAL BUILDINGS (Official)					15002.72	101.0350	48.4155	149.4505	2242163.86
GRAND TOTAL (A+B+C+D)					76169.22				16384916.24

GENERAL MAINTENANCE _ - ELECTRICAL WORKS

S. No.	Name of the Building	Nos.	Block/Floor	Total No.s	Approx. Plinth area/unit in sqm	Total Plinth Area in sqm	Plinth Area Rate	TOTAL AMOUNT
A	RESIDENTIAL BUILDINGS							
	Director's Residence	1	1	1	300	300	2.8	
	Type VI houses	12	1	12	270	3240	1437%	
	Type V houses (Duplex)	22	1	22	200	4400		
	Total I					7940	43.0360	341705.84
	Type V houses (Multistorey)	5	4	20	173	3460	2.3	
	Type IV houses (Old)	6	1	6	101	606	1437%	
	Type IV houses (New)	6	4	24	99	2376		
	Type III houses (Old)	6	2	12	75	900		
	Type III houses (New)	6	4	24	72	1728		
	Married Students Hostel	1	3	3	315	945		
	Type II houses	1	3	3	248.50	745.5		

	Total II					10760.5	35.3510	380394.44
	TOTAL FOR HOUSES					18700.50		722100.28
B	HOSTELS							
	Boys Hostel I	1	1	1	3000	3000	3.7 1437%	
	Boys Hostel II	1	1	1	4300	4300		
	Chenab Hostel	1	1	1	6064	6064		
	Girls Hostel	1	3	3	1550	4650		
	Trainee's Hostel	1	1	1	635	635		
	Guest House	1	1	2	750	1500		
	TOTAL FOR HOSTELS					20149	56.8690	1145853.48
C	INSTITUTIONAL BUILDINGS (Technical)							
	Teaching & Research Blocks (A to F)	6	3	18	650	11700	7.4 1437%	
	Teaching & Research Block G	1	2	2	650	1300		
	Teaching & Research Block H	1	2	2	300	600		
	Teaching & Research Block I	1	2	2	450	900		
	Animal House	1	1	1	1700	1700		
	NTC (GLP)	1	1	1	700	700		
	TDC (Pilot Plant)	1	1	1	1867	1867		
	NBC	1	2	2	600	1200		
	NPFL	1	1	1	1100	1100		
	Dispensary	1	1	1	400	400		
	Infectious Centre	1	2	2	425	850		

	TOTAL FOR INSTITUTIONAL BUILDINGS (Technical)						113.7380	
						22317		2538290.946

D	INSTITUTIONAL BUILDINGS (Official)							
	Lecture Halls	1	2	2	96	192	3.25	
	MBA	1	2	2	750	1500	1437%	
	PHC	1	2	2	575	1150		
	Main store I	1	1	1	400	400		
	Main store II	1	1	1	600	600		
	Shops	4	1	4	13.19	52.76		
	Over head tank	1	1	1	391	391		
	Secretariat	1	3	3	423.333	1270		
	Admn. Building	1	2	2	550	1100		
	Library	1	6	6	266.66	1600		
	Central Seminar Hall	1	1	1	155	155		
	Cafeteria & Community Centre	1	1	1	1659	1659		
	Auditorium & Convention Centre	1	1	1	1700	1700		
	Main gate, Security check post & Swimming Pool	1	1	1	1467	1467		
	Engineering Section	1	2	2	336	672		
	Utility Building	1	1	1	200	200		
	Pump house	1	1	1	12	12		
	Solvent Store	1	1	1	150	150		
	Substation & AC Plant	1	1	1	300	300		
	Underground Tank	1	1	1	337	337		

	Effluent Treatment plant	1	1	1	95	95		
	TOTAL FOR INSTITUTIONAL BUILDINGS (Official)					15002.72	49.9525	749423.32
	GRAND TOTAL (A+B+C+D)					76169.22		5155668.02

General Maintenance (Mechanical)

S.No	Description	Amount (In lacs)
1	General Maintenance for DM and soft water line storage.	1.50
2	General Maintenance for cylinder Valves, tubing, regulators etc.	1.00
3	Maintenance of refrigerators, split A/C, deep freezer & compressor, fan motors etc	2.00
5	Repair of DG Sets & allied accessories	3.00
6	Labour charges for loading , unloading, lifting, shifting and for other special jobs.	1.00
7	Machining / mechanical repair works to be got done from outside agencies	2.50
8	Storage system in utility/ mechanical lab for spares & accessories	3.50
9	Maintenance of pumps 0.5HP to 45HP	3.00
10	Refilling of gases including carriage etc	2.00
11	Painting works of machines, canopies, pile lines and utility area etc.	3.00
12	Carriage of material, equipment procurement from market	0.50
13	Spares for central A/C, AHU, FCU, valves	6.00
14	oil, lubricants and cleaning chemicals	1.00
15	Purchase of machinery/ general mechanical components/spares	1.00
16	Goods Lift repairs	3.00
	TOTAL (A)	34.00

Lab Equipments / Instrument Modification / Repair

S.No	Description	Amount (In lacs)
1	General Maintenance of pharma lab. Equipments such as tablet machine, ampule, powder coating machines, nitrogen, generators etc.	3.00
2	Service of equipments, lab valves, pressure kits, gas controllers, pumping equipments etc.	3.00
3	Spares of lab equipment accessories such as SS tubing, fittings, manifolds, copper piping, filtration equipments etc.	2.00
4	Machining / repair of lab. Components, lab. Experimental gadgets	2.00
5	Manufacturing of new lab samples / experiments for study of students.	1.00
6	General spares of fuming hoods such as impellar, housing, frame works, exhaust blowers	3.00

7	Instrument covers, trays, base frames, polymer sheets , gas cylinder sheds	1.50
8	8 Nos gas cylinder storage cabinets for Teaching & Research Blocks	5.00
	TOTAL (B)	20.50

	GRAND TOTAL (A + B)	54.50
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General Maintenance (Electronics) -I

S.No	Description	Amount (In lacs)
1	Providing and laying of telephone cable ranging from 5 pair to 30 pair	2.00
2	Telephone panels, drop wire, line and coil cord	1.00
3	Telephone Sets (Analog and digital)	1.00
	TOTAL (A)	4.00

Repairs of Instruments / Spares

S.No	Description	Amount (In lacs)
1	Spares of instruments like BOD, oven Microwave, chillers, magnetic stirrer, heating menters,UV tube, spare heating mentle.	3.00
2	Repair of Instruments, rotavapour, vortexer mixer, rocker, sonicator, centrifuse microwave, chillers	1.50
3	Caliberation of instruments like PID, Eneyg meters	0.50
4	Repair of stablizer, Inventor etc	0.50
5	Repair / rewinding of instrument motors, dimmer stat etc.	0.50
6	Repair of Autoclaves, waterbath	0.35
7	Repair of telephone equipments	0.25
8	Jointing of telephone cables	0.25
9	Repair of projector(Auditorium) and related accessories.	3.00
	TOTAL (B)	9.85

	GRAND TOTAL (A + B)	13.85
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SPECIAL / Major repairs (Civil)- II

S.No	Description	Amount (In lacs)
1	Works at ETP plant maintenance.	1.00
2	Provision of sign board at road	2.00
3	Boundary wall barbed wire fencing repair.	3.00
4	Maintenance jobs of meter room near boundary wall.	0.50
5	Repair of furniture	5.00
6	Cleaning of under ground and overhead water tanks	1.75
7	Repair of Roads	5.00
	TOTAL	18.25

SPECIAL / Major repairs (Electrical works)

S.No	DESCRIPTION	Amount (In lacs)
1	Electrical spares for Central Air - conditioning plant and other Air - Conditioning equipments, window + split A/C related accessories	3.00
2	Electrical Spares of 2nos x 500,320 , 160 KVA DG sets.	2.00
3	Special repair of earthing grid	4.50
4	Dyhydration & filtration of transformer oils & repair work	3.75
5	Special repair of capacitors LT panels	2.00
	TOTAL	15.25

SPECIAL / Major repairs (Mechanical)

S.No	Description	Amount (In lacs)
1	Air compressors, filtration units, controllers,gas generators	2.00
2	Spares for industrial Vaccum pumps and assemblies	0.50
3	Spares for DM Plant and soft water plant	2.00
4	Spares for centrifugal pump motors 1 hp to 45 hp	1.50
5	Accessories for pipe lines	2.50
6	Spares for lifts	1.00
7	Spares for split A/C Deepfreezers, cold room, refrigerators, compressors, temperature controllers etc.	1.50
8	Microfilter, Hepa, Pre – filter	1.50
9	Gases freons R404, r134,R12, R22,R502 etc.	2.00

10	Repair of chiller compressor	4.00
11	Mechanical Spares of DG sets including heat exchanger for 500 KVA	7.00
12	Air pressure kits	0.30
13	Pipes - Ropes, tubes, flexible and hard pipes, MS, SS, PP, PPR, pipes, hosepipes, nut bolts, sheets (G.I plastics), testing instruments, frames, trolleys, plastic rods, MS Angles, flats, channels etc.	2.25
	TOTAL	28.05

Upgradation / Modification Works (Civil)-III

S.No	Description	Amount (In lacs)
1	sewage line at Beas hostel & Girls Hostel	3.00
	TOTAL	3.00

Upgradation / Modification works (Electrical)

S.No	Description	Amount (In lacs)
1	Modification of LT Panel and feeder pillars at various locations.	4.00
2	Replacement/ upgradation of AHU of central Seminar hall	2.00
3	Replacement / upgradation of FCU at various locations	1.50
4	Modification of Alarm system in Auditorium	3.00
5	Modification & upgradation in 11 KV OCB's tripping systems	4.50
6	Modification & upgradation of LT panels	4.00
	TOTAL	19.00

Upgradation / modification works (Mechanical)

S.No	Description	Amount (In lacs)
1	Upgradation of DM & Soft water units	4.00
2	Upgradation of AC suctions and discharge lines	4.00
3	Modification of storage and distribution of treated water	2.00
4	Gas tubing distribution and cylinder storage for labs	3.00
5	Racks / covers for exposed service lines	2.00
	TOTAL	15.00

AMC for Special Services (Civil)-IV

S.No	Description	Amount (In lacs)
1	AMC for Anti Termite Treatment in NIPER Campus	3.00
2	AMC for Solar water heating system in NIPER	2.25
3	AMC for tubewell water suply & ETP running	7.50
	TOTAL	12.75

AMC for Special Services (Electrical / Mech)

S.No	Description	Amount (In lacs)
1	AMC for Mechanical utility services.	10.00
2	CMC of DG Sets and allied accessories.	4.00
	TOTAL	14.00

AMC for Special Services (Mechanical)

S.No	Description	Amount (In lacs)
1	Operation and maintenace for centralised Air conditioning plant and related accessories.	30.00
2	AMC for Fire services including extinguishers	4.00
2	AMC of Precision A/Cs	2.50
3	AMC for Lifts - 02 Nos in Chenab Hostel. Make - KONE	2.50
4	AMC for lift 01 No in Library. Make - OTS.	1.00
	TOTAL	40.00

Procurement of Tools & Plants (civil)-V

S.No	Description	Amount (In lacs)
1	Sewage pump with 5HP motor	0.50
	TOTAL	0.50

Procurement of Tools & Plants (Mechanical /Electrical)

S.No	Description	Amount (In lacs)
1	Standing type drill machine	0.50
2	Hammer Drill Machines potable upto dia 25mm-2nos	0.50
3	Drill machine portable upto dia 13mm- 2nos	0.20
4	Bench Grinder	0.15
5	Portable wood cutter dia 150mm	0.15
6	Metal cutter machine wheel type upto dia 310 mm	0.25
7	Gas Cylinders upto 7 cum , N2, O2, Freon	1.50
8	Portable vaccum pumps.	0.50
9	Cutting machines etc.	1.50
10	Tools and Tackles - Testers, pliers, Allen keys, goti set, Gas torches, burners, cutters, drills, regulators, clamps,digging tools, cutting tools, magger ,earth tester, cable fault finder, electronic meters etc.	1.50
	TOTAL	6.75

Annexure 2

BANK BALANCE AS ON 09.03.2016

Amt in lacs

Sr. No.	Name of Accounts	Purpose	S/B A/C BALANCE	FD BALANCE	TOTAL
1	NIPER Main A/c	to receive Grant and other Income	69.56	522.09	591.66
2	NIPER Project A/c	to receive Project Grant and payment thereof	160.63	275.00	435.63
3	NIPER Consultancy A/c	to receive consultancy Grant and payment thereof	30.69	499.32	530.01
4	NIPER Foreign A/c	to receive International Currency against Project	0.21	0.00	0.21
5	NIPER JEE A/c	To conduct joint Entrance Examination	0.05	0.00	0.05
6	NIPER Semester Fee A/c	To receive Fee from Students	0.04	0.00	0.04
7	NIPER Alumni A/c*	to Receive Alumni Funds of Students	0.00	0.00	
8	NIPER Award A/c	to receive award money	0.00	2.96	2.96
9	NIPER Net banking A/c	Toremitt TDS and service tax	0.24	0.00	0.24
10	NIPER Donation A/c	To receive any sort of donation	0.15	0.00	0.15
11	Endowment Chair A/c	to appoint endowment chair	0.11	117.75	117.86
12	DDNPTM A/c	to maintain workshop money	0.64	18.35	18.99
13	NIPER welfare A/c	to maintain welfare contribution of employee	1.19	17.30	18.49
14	Corpus Fund A/c	to maintain the IEBR of the Institute	0.05	6685.56	6685.61
15	NIPER GPF A/c	to maintain GPF fund of Employees	0.00	657.98	657.98
16	NIPER CPF A/c	to maintain the CPF fund of employee	0.00	35.92	35.92
17	NIPER CPF NPS A/c	to receive and remit the NPS contribution amount	0.00	83.28	83.28
18	NIPER staff club A/c*	to maintain recreation receipt of employees	0.00	0.00	
19	PRMF fund A/c	to maintain the PRMF amount	0.00	17.72	17.72
20	NIPER TDS A/c	To deposit TDS in Govt. Account	0.05	0.00	0.05

21	NIPER A/c (Canara Bank)	To deposit NPS in Govt. Account	4.63	0.00	4.63
22	Director NIPER A/c (PNB)	To deposit Custom Duty in Govt. Account	0.69	0.00	0.69
23	NIPER A/c (Indian Bank)	To maintain the IEBR of the Institute	0.00	0.00	0.00
24#	NIPER PENSION FUND A/C	To maintain the Pension Fund a/c of the Institute	0.00	297.98	297.98
25#	NIPER GRATUITY A/C	To maintain the Gratuity Fund a/c of the Institute	0.00	438.40	438.40
26#	NIPER LEAVE FUND A/C	To maintain the Leave fund a/c of the Institute	0.00	671.12	671.12
27#	Pharma. Con. FUND A/C		0.00	14.78	14.78
TOTAL			268.94	10355.52	10624.47

* NIPER Alumni A/C & NIPER Staff Club A/C not in NIPER Books

SI. NO. 24 - 27 NOT IN ORIGINAL STATEMENT

A) Detail of Grant Received under Plan and Non-Plan during 2015-16

Annexure -3

GRANT -IN-AID RECEIVED DURING 11TH PLAN

SLNO	YEAR	PLAN	NON-PLAN	TOTAL(Fig in Lacs)
1	2007-08		325.00	
			325.00	
		250.00		
		350.00		
			300.00	
		1400.00		
		369.00		
			250.00	
			71.00	
		2369.00	1271.00	3640.00
2	2008-09		375.00	
		539.00		
			340.00	
		1441.00		
		1427.00		
			573.00	
			451.00	
		3407.00	1739.00	5146.00
3	2009-10	219.50		
			650.00	
		1915.00		
			600.00	
			600.00	
		500.00		
			150.00	
		50.00	92.00	

		2684.50	2092.00	4776.50
4	2010-11		650.00	
		125.00		
		1247.00		
			650.00	
			604.00	
			160.00	
		1372.00	2064.00	3436.00
5	2011-12		865.00	
			865.00	
		1784.00		
			693.00	
			54.00	
		1784.00	2477.00	4261.00
GRAND TOTAL		11616.50	9643.00	21259.50

GRANT -IN-AID RECEIVED DURING 12TH PLAN

SLNO	YEAR	PLAN	NON-PLAN	TOTAL
1	2012-13		200.00	
			250.00	
			298.00	
			541.00	
			391.00	
			434.00	
			150.00	
			18.00	
			2282.00	2282.00
2	2013-14		392.00	
			727.00	
			422.00	
			113.00	

			41.00	
			102.00	
			123.00	
		122.00		
		122.00		
		244.00	1920.00	2164.00
3	2014-15		425.70	
			425.70	
			425.70	
			372.80	
			437.00	
		71.13		
		172.87		
		244.00	2086.90	2330.90
4	2015-16		1319.00	
			1429.00	
		0.00	2748.00	2748.00

Grand Total (Plan+Non Plan)= ` 30784.40 lacs Say Rs.307.84 Cr

B) Other sources of funding-fees, charges, grants, gifts, donations, bequests, transfers etc (Non -Plan Receipt)

Year -wise IEBR 2007-08 to 2015-16

Amt in lacs

SL.NO.	HEAD	2007-08	2008-09	2009-10	2010-11	2011-12	2012-13	2013-14	2014-15	2015-16*
1	LAB TESTING CHARGES	16.55	11.75	19.23	23.33	29.12	35.72	33.60	48.12	25.44
2	GUEST HOUSE RECEIPT	15.89	12.96	12.86	12.36	12.34	13.14	7.98	5.84	10.28
3	APPLICATION FEE	21.21	23.95	44.06	45.68	67.66	24.28	41.48	34.40	31.77
4	SEMESTER FEE	123.11	113.96	159.39	216.61	330.04	299.45	304.70	221.14	304.93
5	TRAINING & SEMINAR FEE	16.18	46.76	38.81	56.43	40.23	50.30	27.63	58.63	11.21
6	CONSULTANCY FEE	23.38	49.23	63.80	103.68	7.02	40.36	56.59	33.14	22.85
7	TENDER FEE	0.89	1.43	0.46	0.68	0.29	1.02	0.64	0.78	0.00
8	MISC. INCOME	9.51	8.91	6.98	6.47	27.58	27.51	23.45	92.86	27.35
9	INTEREST EARNED	125.66	194.92	282.29	203.23	178.04	223.11	110.37	54.41	63.58
10	PUBLICATION	7.10	0.67	0.47	0.64	0.37	0.28	0.35	0.35	0.08
11	PATENT CHARGES	0.00	0.00	0.00	0.00	0.00	18.85	0.00	10.00	0.00
	TOTAL	359.48	464.55	628.34	669.11	692.68	734.00	606.79	559.67	497.49

* upto 09.03.2016

ANNEXURE-4

Budget Estimates (Non Plan) NIPER Mohali for FY 2016-17				
Sr No.	Particulars		Rs (In Lacs)	Remarks
1	Grant in Aid (Salary)	Existing Staff(Salary& Other Retiral Benefits)Plus Provision for posts to be filled	3693.64	
2	Grant in Aid (General)		3115.84	
	Total		6809.47	

(Non-plan –Salary)													
BUDGET ESTIMATES (BE) SALARY & ALLOWANCE FOR THE YEAR 2016-17											In Rs		
S. No.	DEPARTMENT/DESIGNATION	PRESENT PAY BAND	PRESENT GRADE PAY	PAY BAND	Total Pay+ Grade Pay	Monthly Salary	Total Salary budget for 2016-17						
	ACADEMIC & EXAMINATION												
1	Section Officer	9300-34800	4600	17150	21750	49385	800037						
2	COMPUTER PROGRAMMER	9300-34800	4600	14710	19310	47903	776029						
3	ASSTT. GRADE-I	9300-34800	4200	16280	20480	50699	821324						
4	STENOGRAPHER GRADE-C	9300-34800	4600	16310	20910	51727	837977						
5	DATA ENTRY OPERATOR	9300-34800	4600	14950	19550	48477	785327						
6	STENOGRAPHER GRADE-C	9300-34800	4200	15620	19820	45158	731560						
7	JUNIOR TECHNICAL ASSISTANT	5200-20200	2400	8770	11170	26214	424667						
	Sub-Total						5176921						
	ADMINISTRATION												
1	DY REGISTRAR	15600-39100	7600	22910	30510	70321	1139200						
2	DATA PROCESSING ASSISTANT	9300-34800	4200	11470	15670	36069	584318						
3	Hindi Translator	9300-34800	4200	11940	16140	40327	653297						
4	RECEPTIONIST_CUM TELEPHONE OPERATOR	9300-34800	2400	10570	12970	30156	488527						
5	RECEPTIONIST_CUM TELEPHONE OPERATOR	9300-34800	4200	11410	15610	35938	582196						
6	STENOGRAPHER GRADE-D	5200-20200	2400	10190	12590	29842	483440						
7	ASSTT. GRADE-III			4580	4580	11822	191516						
	Sub-Total						4122495						
	BIOTECHNOLOGY												
1	PROFESSOR	37400-67000	10500	67000	77500	173229	2806310						

2	ASSISTANT PROFESSOR	15600-39100	9500	51150	60650	136328	2208514	
3	ASSISTANT PROFESSOR	15600-39100	9000	43250	52250	117932	1910498	
4	ASSISTANT PROFESSOR	15600-39100	9000	38800	47800	108986	1765573	
5	ASSISTANT PROFESSOR	15600-39100	9000	37400	46400	101616	1646179	
6	SCIENTIST GRADE-I	15600-39100	6600	28050	34650	79388	1286086	
7	ASSTT. GRADE-II	9300-34800	4600	15294	19894	45320	734184	
8	TECHNICAL ASSISTANT	9300-34800	4200	13240	17440	39946	647125	
9	TECHNICAL ASSISTANT	9300-34800	4200	11010	15210	35062	568004	
10	TECHNICAL ASSISTANT	9300-34800	4200	11010	15210	35062	568004	
11	TECHNICAL ASSISTANT	9300-34800	4200	13450	17650	40406	654577	
12	JUNIOR TECHNICAL ASSISTANT	9300-34800	2400	10570	12970	30156	488527	
13	JUNIOR TECHNICAL ASSISTANT	9300-34800	4600	14430	19030	47234	765191	
14	JUNIOR TECHNICAL ASSISTANT	5200-20200	4200	13450	17650	40406	654577	
	Sub-Total						16703350.2	
	CENTRAL ANIMAL FACILITY							
1	SCIENTIST GRADE-I	15600-39100	5400	31293	36693	83862	1358564	
2	JUNIOR TECHNICAL ASSISTANT	5200-20200	4600	14740	19340	47975	777195	
3	JUNIOR TECHNICAL ASSISTANT	5200-20200	4200	13020	17220	39464	639317	
	Sub-Total						2775076.2	
	CENTRAL INSTRUMENT LABORATORY							
1	TECHNICAL SUPERVISOR GRADE-II	9300-34800	4600	22990	27590	67692	1096610	
2	TECHNICAL ASSISTANT	9300-34800	4200	11010	15210	35062	568004	

3	TECHNICAL ASSISTANT	9300-34800	4200	13450	17650	40406	654577	
4	TECHNICAL ASSISTANT	9300-34800	4600	16800	21400	52898	856948	
5	TECHNICAL ASSISTANT	9300-34800	4200	13450	17650	40406	654577	
6	TECHNICAL ASSISTANT	9300-34800	4200	11010	15210	38104	617285	
7	TECHNICAL ASSISTANT	9300-34800	4200	9710	13910	34997	566951	
8	JUNIOR TECHNICAL ASSISTANT	5200-20200	2400	8770	11170	27966	453049	
9	JUNIOR TECHNICAL ASSISTANT	5200-20200	4200	11010	15210	35062	568004	
10	JUNIOR TECHNICAL ASSISTANT	5200-20200	2400	7810	10210	26154	423695	
11	JUNIOR TECHNICAL ASSISTANT	5200-20200	2400	8770	11170	26214	424667	
	Sub-Total						6884368.2	
	COMPUTER CENTRE							
1	HEAD COMPUTER CENTRE	15600-39100	7600	31130	38730	88323	1430833	
2	DATA PROCESSING ASSISTANT	9300-34800	4600	19040	23640	53524	867089	
3	DATA PROCESSING ASSISTANT	9300-34800	4600	17090	21690	49253	797899	
4	TECHNICAL ASSISTANT	9300-34800	4600	18530	23130	52407	848993	
	Sub-Total						3944813.4	
	DEAN OFFICE							
1	MUSEUM CURATOR	15600-39100	5400	19680	25080	58429	946550	
2	DATA ENTRY OPERATOR	9300-34800	4600	14950	19550	44567	721985	
	Sub-Total						1668535.2	
	DIRECTOR OFFICE							
1	OFFICIATING DIRECTOR	80000/-fixed		80000	80000	191530	2327090	
2	PS TO DIRECTOR	15600-39100	6600	29650	36250	90142	1095225	
	Sub-Total						3422314.8	
	ENGINEERING SECTION							

1	ASSISTANT ENGINEER (ELECTRICAL)	15600-39100	6600	25980	32580	81370	1318194	
2	ASSISTANT ENGINEER (CIVIL)	9300-34800	4600	14710	19310	47903	776029	
3	JUNIOR ENGINEER MACHENICAL	9300-34800	4600	18200	22800	56244	911153	
4	OVERSEAR	9300-34800	4600	14740	19340	44107	714533	
	Sub-Total						3719908.8	
	FINANCE & ACCOUNTS							
1	DR REGISTRAR	15600-39100	7600	22810	30410	70102	1135652	
2	FINANCE & ACCOUNTS OFFICER	15600-39100	5400	24950	30350	69971	1133530	
3	SECTION OFFICER	9300-34800	4600	12540	17140	42717	692015	
4	ASSTT. GRADE-I	9300-34800	4200	14750	18950	43253	700699	
5	ASSTT. GRADE-II	9300-34800	4200	11940	16140	40327	653297	
6	ASSTT. GRADE-III	5200-20200	2400	9460	11860	30722	497696	
	Sub-Total						4812890.4	
	HINDI CELL							
1	HINDI TYPIST	5200-20200	2400	9110	11510	28711	465118	
	Sub-Total						465118.2	
	LIBRARY & INFORMATION CENTRE							
1	LIBRARY INFORMATION ASSISTANT	9300-34800	4600	18530	23130	52407	848993	
2	LIBRARY INFORMATION ASSISTANT	9300-34800	4600	18530	23130	52407	848993	
	Sub-Total						1697986.8	
	MEDICINAL CHEMISTRY							
1	PROFESSOR	37400-67000	10500	67000	77500	174129	2820890	
2	PROFESSOR	37400-67000	10500	67000	77500	173229	2806310	
3	PROFESSOR	37400-67000	10500	65870	76370	170754	2766215	
4	PROFESSOR	37400-67000	10500	63640	74140	165871	2687110	

5	ASSOCIATE PROFESSOR	15600-39100	9500	48190	57690	129845	2103489	
6	ASSOCIATE PROFESSOR	15600-39100	9500	49380	58880	132451	2145706	
7	ASSOCIATE PROFESSOR	15600-39100	9500	49380	58880	132451	2145706	
8	SCIENTIST GRADE-I	15600-39100	5400	22740	28140	70759	1146296	
9	SCIENTIST GRADE-I	9300-34800	5400	19510	24910	63039	1021232	
10	SCIENTIST GRADE-II	9300-34800	4600	14710	19310	49655	804411	
11	STENOGRAPHER GRADE-C	9300-34800	4600	16310	20910	51727	837977	
12	TECHNICAL ASSISTANT	9300-34800	4200	13450	17650	40406	654577	
13	TECHNICAL ASSISTANT	9300-34800	4200	13450	17650	40406	654577	
14	TECHNICAL ASSISTANT	9300-34800	4200	12430	16630	39924	646769	
15	TECHNICAL ASSISTANT	9300-34800	4200	12930	17130	39267	636125	
16	TECHNICAL ASSISTANT	9300-34800	4200	9710	13910	32215	521883	
17	TECHNICAL ASSISTANT	9300-34800	4600	18210	22810	51706	837637	
18	JUNIOR TECHNICAL ASSISTANT	5200-20200	2400	7810	10210	26154	423695	
19	JUNIOR TECHNICAL ASSISTANT	5200-20200	2400	10570	12970	30156	488527	
	Sub-Total						26149132.8	
	NATURAL PRODUCT							
1	PROFESSOR	37400-67000	10500	60960	71460	160001	2592016	
2	PROFESSOR	37400-67000	10500	58870	69370	169298	2742628	
3	GARDEN SUPERVISOR	15600-39100	7600	34050	41650	94718	1534432	
4	SCIENTIST GRADE-I	15600-39100	5400	18950	24350	56831	920662	
5	SCIENTIST GRADE-II	9300-34800	4600	15290	19890	49289	798482	

6	SCIENTIST GRADE-II	9300-34800	5400	22350	27750	64277	1041287	
7	SCIENTIST GRADE-II	9300-34800	4600	15290	19890	49289	798482	
8	SCIENTIST GRADE-II	9300-34800	5400	20150	25550	59859	969716	
9	STENOGRAPHER GRADE-C	9300-34800	4600	16310	20910	51727	837977	
10	TECHNICAL ASSISTANT	9300-34800	4200	13450	17650	40406	654577	
11	TECHNICAL ASSISTANT	9300-34800	4600	18520	23120	52385	848637	
12	TECHNICAL ASSISTANT	9300-34800	4200	12570	16770	38478	623344	
13	JUNIOR TECHNICAL ASSISTANT	9300-34800	4200	12190	16390	37646	609865	
14	JUNIOR TECHNICAL ASSISTANT	5200-20200	4600	14430	19030	43428	703534	
	Sub-Total						15675638.4	
	PHARMA ANALYSIS							
1	PROFESSOR	37400-67000	10500	67000	77500	188729	3057410	
2	SCIENTIST GRADE-II	9300-34800	4600	15290	19890	49289	798482	
3	SCIENTIST GRADE-II	9300-34800	4600	17810	22410	50830	823446	
4	STENOGRAPHER GRADE-C	9300-34800	4200	11940	16140	40327	653297	
5	TECHNICAL ASSISTANT	9300-34800	4200	13450	17650	43936	711763	
	Sub-Total						6044398.2	
	PHARMACEUTICAL MANAGEMENT							
1	PROFESSOR	37400-67000	10500	63150	73650	164798	2669728	
2	ASSOCIATE PROFESSOR	15600-39100	9500	49380	58880	132451	2145706	
3	ASSOCIATE PROFESSOR	15600-39100	9500	49850	59350	134281	2175352	
4	STENOGRAPHER GRADE-B	9300-34800	4600	24760	29360	71922	1165136	
	Sub-Total						8155922.4	
	PHARMACEUTICAL TECHNOLOGY							

1	PROFESSOR	37400-67000	10500	67000	77500	173229	2806310	
2	SCIENTIST GRADE-II	15600-39100	6600	25950	32550	74789	1211582	
3	SCIENTIST GRADE-II	9300-34800	4600	14710	19310	47903	776029	
4	JUNIOR TECHNICAL ASSISTANT	5200-20200	4200	12510	16710	38557	624623	
5	JUNIOR TECHNICAL ASSISTANT	5200-20200	2400	8770	11170	26214	424667	
	Sub-Total						5843210.4	
	PHARMACEUTICS							
1	PROFESSOR	37400-67000	10500	63180	73680	164863	2670781	
2	ASSOCIATE PROFESSOR	15600-39100	9500	45990	55490	125027	2025437	
3	SCIENTIST GRADE-II	9300-34800	4600	20310	24910	56305	912141	
4	SCIENTIST GRADE-II	9300-34800	5400	21720	27120	68321	1106800	
5	TECHNICAL ASSISTANT	9300-34800	4600	18190	22790	51662	836924	
6	TECHNICAL ASSISTANT	9300-34800	4200	13450	17650	40406	654577	
7	TECHNICAL ASSISTANT	9300-34800	4600	16780	21380	48574	786899	
8	TECHNICAL ASSISTANT	9300-34800	4200	11470	15670	36069	584318	
9	JUNIOR TECHNICAL ASSISTANT	5200-20200	2400	10190	12590	28324	458849	
10	STENOGRAPHER GRADE-D	5200-20200	2400	9460	11860	30097	487571	
	Sub-Total						10524297.6	
	PHARMACOINFORMATICS							
1	PROFESSOR	37400-67000	10500	58830	69330	169203	2741089	
2	ASSISTANT PROFESSOR	15600-39100	9500	49860	59360	134302	2175692	
3	ASSISTANT PROFESSOR	15600-39100	9000	41720	50720	114581	1856212	
4	JUNIOR TECHNICAL ASSISTANT	5200-20200	2400	10190	12590	27572	446666	

	Sub-Total						7219659.6	
	PHARMACOLOGY & TOXICOLOGY							
1	PROFESSOR	37400-67000	10500	63180	73680	165663	2683741	
2	PROFESSOR	37400-67000	10500	63150	73650	164798	2669728	
3	ASSOCIATE PROFESSOR	15600-39100	9500	51150	60650	136328	2208514	
4	SCIENTIST GRADE-II	15600-39100	5400	23140	28540	71715	1161783	
5	SCIENTIST GRADE-II	9300-34800	4600	21180	25780	63366	1026529	
6	TECHNICAL ASSISTANT	9300-34800	4200	13450	17650	43936	711763	
7	TECHNICAL ASSISTANT	5200-20200	4200	12730	16930	38829	629030	
8	TECHNICAL ASSISTANT	5200-20200	4200	11010	15210	38104	617285	
9	JUNIOR TECHNICAL ASSISTANT	5200-20200	2400	10570	12970	32750	530550	
10	JUNIOR TECHNICAL ASSISTANT	5200-20200	2400	9110	11510	29261	474028	
	Sub-Total						12712950	
	PHARMACY PRACTICE							
1	PROFESSOR	37400-67000	10500	63640	74140	165871	2687110	
2	ASSISTANT PROFESSOR	15600-39100	9000	40240	49240	111340	1803708	
3	STENOGRAPHER GRADE-D	5200-20200	4200	12920	17120	39245	635769	
	Sub-Total						5126587.2	
	Technology Development Centre							
1	ASSISTANT PROFESSOR	15600-39100	9000	40240	49240	111340	1803708	
2	SCIENTIST GRADE-II	15600-39100	4600	14710	19310	47903	776029	
3	JUNIOR TECHNICAL ASSISTANT	15600-39100	2400	9110	11510	26959	436736	
4	JUNIOR TECHNICAL ASSISTANT	5200-20200	2400	12150	14550	33617	544595	
5	JUNIOR TECHNICAL ASSISTANT	9300-34800	4200	12030	16230	37296	604195	

6	JUNIOR TECHNICAL ASSISTANT	5200-20200	2400	10570	12970	30156	488527	
	Sub-Total						4653790.2	
	PUBLIC RELATION OFFICE							
1	STENOGRAPHER GRADE-B	9300-34800	4600	19570	24170	59518	964192	
	Sub-Total						964191.6	
1	REGISTRAR	37400-67000	10000	49660	59660	134159	2173376	
2	STENOGRAPHER GRADE-C	9300-34800	4600	19540	24140	59447	963041	
3	GUEST HOUSE INCHARGE	9300-34800	4200	10560	14760	37028	599854	
4	ASSTT. GRADE-III	5200-20200	2400	8440	10840	25492	412970	
	Sub-Total						4149241.2	
	STORES & PURCHASE							
1	STORES PURCHASE OFFICER	9300-34800	5400	23520	28920	69731	1129642	
2	SECTION OFFICER (S&P)	15600-39100	6600	26700	33300	76431	1238182	
3	ASSTT. GRADE-I	9300-34800	4200	16280	20480	46603	754969	
4	STENOGRAPHER GRADE-C	9300-34800	4600	16310	20910	47545	770229	
5	STORE KEEPER	9300-34800	5400	19870	25270	64349	1042454	
6	STORE KEEPER	9300-34800	4200	11940	16140	37099	601004	
7	STORE KEEPER	9300-34800	4200	12930	17130	39267	636125	
8	DATA ENTRY OPERATOR	9300-34800	4600	14950	19550	48477	785327	
9	ASSTT. GRADE-III	5200-20200	2400	10570	12970	30156	488527	
	Sub Total						7446459.6	
	SMPIC							
1	SCIENTIST GRADE-I	15600-39100	5400	24930	30330	75993	1231087	
2	TECHNICAL ASSISTANT	9300-34800	5400	19640	25040	63350	1026270	

	Sub-Total						2257356.6	
159							172,316,613.60	
	Salary budget proposed for 2016-17 for staff in position							1723.17
	Add Salary budget proposed for the post to be filled in 2016-17							629.65
	Regular Pension & Liability For pension fund						556.98	
	Employer Contribution to NPS						125.26	
	Children Education Allowance						31.25	
	Leave Travel Concession & Encashment						25.00	
	Provision for leave encashment & Gratuity for 2016-17							140.00
	Medical Reimbursement						35.00	
	Security, Housekeeping, Lab attendant & Malis etc. through outsource services							386.40
	Adhoc Bonus to staff						4.00	
	Salary Contract Staff						36.93	
	<i>Grand Total</i>						<i>3693.64</i>	
Note								
:								
1) Salary for the financial year calculated with 20 % 7th Pay Commission , 6 % DA due on Jan-16 & 6% DA due on Jul-15 and 3 % Increment								

BUDGET ESTIMATES (BE) FOR VACANT POSTS TO BE FILLED IN 2016-17						
Sl.No.	Name of the Post	Total Sanctioned	Total Filled	Total Vacant	<i>Post proposed to be filled 2016-17</i>	Total Salary budget for 2015-16
1	Director	1	0	1	<i>1</i>	3,062,340
2	Professor*	14	16	-2	<i>0</i>	-
3	Associate Professor*	18	9	9	<i>4</i>	6,853,536
4	Assistant Professor*	29	6	23	<i>6</i>	6,288,768
5	Pr. Scientific Officer	1	0	1	<i>1</i>	1,048,128
6	Sr. Scientific Officer	1	0	1	<i>1</i>	906,936
7	Head Computer Center	1	1	0	<i>0</i>	-
8	Chief Maintenance Engineer	1	0	1	<i>1</i>	

						906,936
9	System Engineer	1	0	1	0	-
10	Tech.Sup.Gr.I/Scientist Gr.I	34	6	28	12	9,112,608
11	Garden Supervisor	1	1	0	0	-
12	Registrar	1	1	0	0	-
13	Pr.Lib.& Infor.Officer	1	0	1	0	-
14	Dy.Registrar (F&A)	1	1	0	0	-
15	Dy.Registrar (A&P)	1	1	0	0	-
16	Dy.Registrar (Exam)	1	0	1	1	1,048,128
17	Asstt.Registrar (Exam)	1	0	1	1	759,384
18	Asstt.Registrar (Estt.)	1	0	1	1	759,384
19	Finance & Accounts Officer	1	1	0	0	-
20	Medical Officer	2	0	2	2	1,875,564
21	Public Relation Officer	1	0	1	1	759,384
22	Stores & Purchase Officer	1	1	0	0	-
23	Museum Curator	1	1	0	0	-
24	Estates-cum-Security Officer	1	0	1	1	759,384
	Sub Total	116	45	71	33	
25	Tech.Sup.Gr.II/Scientist Gr.II	26	15	11	11	7,691,640
26	Security Supervisor	1	1	0	1	591,480
27	Programmer	1	1	0	0	-
28	Maint Engg/ Asstt Engg	3	2	1	0	-
29	Secretary to Director	1	1	0	0	-
30	Section Officer (Admn.)	1	0	1	1	699,240
31	Section Officer (Exam)	1	0	1	1	699,240
32	Section Officer (S&P)	1	1	0	0	-
33	Section Officer (Accounts)	1	1	0	0	-
34	Stenographer Grade - B	3	2	1	1	699,240
35	Technical Assistant	36	29	7	7	3,889,200

36	Paramedical Staff	4	0	4	4	2,222,400
37	Jr. Engineer	2	1	1	1	555,600
38	Data Processing Asstt.	3	3	0	0	-
39	Data Entry Operator	4	3	1	1	555,600
40	Stenographer Grade-C	9	7	2	2	1,111,200
41	Store Keeper (Chemical+Engg.)	4	3	1	1	555,600
42	Asstt.Gr.I (Admn, Accts, S&P)	3	3	0	0	-
43	Asstt.Gr.II (Admn., Accts, S&P, Exam)	5	2	3	3	1,666,800
44	Guest House Incharge	1	1	0	0	-
45	Library & Info.Asstt.	2	2	0	0	-
46	Junior Hindi Translator	1	1	0	0	-
	Sub Total	113	79	34	34	-
47	Junior Technical Assistant-25	32	24	8	8	3,165,888
48	Suboverseer	1	1	0	0	-
49	Stenographer Grade-D	4	3	1	1	395,736
50	RTO	3	2	1	1	395,736
	Asstt.Gr.III (Admn., S&P, Exam)	9	4	5	5	1,978,680
51	Artist/DIP Operator	1	0	1	1	395,736
52	Hindi Typist	1	1	0	0	-
53	Driver	5	0	5	5	1,555,320
	Subtotal	56	35	21	21	-
Total		285	159	126	88	62,964,816
						629.65

*Position shown as actual after taking in to consideration promotion under CAS.

Grant-in-Aid- General			
S. N O.	Particulars	Amount (Rs. in lacs)	
1	Power & Electricity Expenses	359.00	
2	Laboratory Consumables	619.30	
3	Stipend	1167.54	
4	Office Expenditure	970.00	
	Total	3115.836	

(1) **Power & Electricity** – The actual expenditure of the year 2015-16 is anticipated to the of Rs. 3.27 crore. keeping in view the increase in electric load and electric tariff a budget estimate (BE) of Rs. 3.59 crore has been proposed for the year 2016-17.

(2) **Lab consumables**- The expenditure has been proposed keeping in view the strength of faculty and no. of students proposed in 2016-17 as per detail given below:-

S. N O.	Particulars	No. of Students/ faculty	Amount per head	Total Budget of consumables (Rs.)
1	Master Students - 2014 batch (Wet Laboratory)	152	12000	1824000
2	Master Students - 2014 batch (Non-Wet Laboratory)	62	3000	186000
3	Master Students – 2015 batch (Wet Laboratory)	178	50000	8900000
4	Master Students - 2015 batch (Non-Wet Laboratory)	78	7000	546000
5	Master Students - 2016 batch (wet Laboratory)	211	34000	7174000
6	Master Students - 2016 proposed batch (Non-wet Laboratory)	90	7000	630000
7	Budget for faculty	36	450000	1620000

				0
	(Wet Laboratory)			
8	Budget for faculty	10	125000	1250000
	(Non-wet Laboratory)			
9	PhD. Fellows	56	70000	3920000
10	Central Instrument Laboratory			6500000
11	Central Animal Facility			3900000
12	Glassware/Plastic ware/ Solvents/HPLC Solvents/Acids/Chemicals			8000000
13	Technology Development Centre			1000000
14	Computer Centre			300000
15	Pharmacology & Toxicology Centre			800000
16	National Bioavailability Centre			800000
	Total			61930000

(3) **Stipend** :- The expenditure has been proposed keeping in view the strength of students proposed in 2016-17 as per detail given below:-

Sr no	No. of students	No of Student	Amount of stipend and period	Total Amount
1	Stipend for 2015 MS Student	177	@ 12400 p.m. for 03 months	65.84
2	Stipend for 2016 MS Student	211	@ 12400 p.m. for 12 months	313.97
3	Stipend for 2017 MS Student	232	@ 12400 p.m. for 08 months	230.14
4	Fellowship for old PhD Students	68	31 student @ 28000/- p.m	203.16
			25 student @ 25000/-p.m.	
			(12 months) =	
			12 student @ 25000/-	
			(for 08 months)	
5	MBA student scholarship budget			4.46
6	Arrear Revised Stipend (MS+Phd) Annexure			349.96
T o t a l				1167.54

(4) Office Expenses- The detail of office expenditure proposed during the year 2016-17 is as under:-		
S. No.	Sub-Head	Amount (Rs. in lacs)
1	Traveling	15
2	Postage, Telephone, Printing & Stationery	18
3	Advertisement	5
4	Meeting Expenses	5
5	Repair & Maintenance- Building & Engineering services	300
6	Repair & Maintenance - Machinery & Lab. Utilities	256
6	Repair, Running & Maintenance- Vehicles	10
7	Other Expenses (Guest House, Insurance, Horticulture, Entrance Exam., training seminar, Joint Entrance Examination, Testing Expenses, Legal & Professional Expenses, News-paper & Periodical , Patent Filing Etc.)	331
8	Other curriculum activities	30
	Total	970

PART I: Teaching activities (SFC -I)

The following schemes have been included in the XII Five-Year Plan (**PART I: Teaching activities**) of the Institute:

SNo	Scheme title	Resources required (Rs. cr)				Scope of Work
		2015-16		2016-17		
		Capital	Recurring	Capital	Recurring	
A1	Students' fellowships, stipend	0.0	7.94	0.0	7.94	The teaching programme is the mainstay of NIPER's teaching and research activities. Not only do the programmes envisaged under this scheme relate to continuation of all the Masters' and Ph.D. programmes of NIPER but will also eventually lead to tangible research and technological outcomes. Funds shall be utilized for Students Stipend/fellowship Purpose.
A2	Students research contingency including lab consumables	0.0	5.41	0.0	5.41	<ul style="list-style-type: none"> - To provide Lab consumable, solvents and to meet other requirements of labs to make state of the art research facility. - To meet contingent lab research needs of the students/fellows. - As research labs are the heart of any institute, the betterment of lab facilities is essential.
A3	Upgradation of Central Animal Facility	2.5	3.0	0.0	0.5	<ul style="list-style-type: none"> - To create infrastructure for holding experimental animals - To perform laboratory animal care, breeding, maintenance and supply of common laboratory animals for research projects as per CPCSEA guidelines. MoEF, GOI from the existing central animal facility. - Import and maintenance of spontaneously developing / genetically derived small rodents for research purposes.
A4	Library	2.0	4.0	0.0	4.0	- Organization and dissemination of information in support of education and research.

						<ul style="list-style-type: none"> - To continue supporting the research needs of library users. - As Library is the heart of any institute, the betterment of library services is essential. - Efforts to link other NIPERs to minimize the overall cost of project and pool the available resources together.
A5	Modernization of Pharmaceutical Analysis facilities	0.75	0.25	0.75	0.25	<ul style="list-style-type: none"> - To equip the department with new instruments and provision of consumables for students research training - Maintenance of equipment - To replace outdated and old instruments - To train students of the Department and the Institute and to provide support to the industry
A6	Center for Pharmaceutical Nanotechnology	0.25	0.25	1.25	0.25	<p>This proposal has twin objectives of upgradation and maintenance existing facility and the other to plan and carry out nano technology mediated research activities on advanced drug delivery systems, etc., as below:</p> <ul style="list-style-type: none"> - Development of smart nanocarriers for oral drug/vaccine delivery - Development of novel, ligand anchored, multifunctional nanocarriers for targeted drug delivery - Development of smart nanoconstructs as non-viral vectors for site specific gene delivery - Development of lipid based naocarriers for topical delivery - To train students of the Department and the Institute and to provide support to the industry
A7	Academics & Examination	0.05	0.45	0.05	0.45	Plan and conduct of activities related to academic programmes / meetings, etc.
A8	Joint Entrance Examination	0.05	0.45	0.05	0.45	Conduct all India Examination both for Masters' and Ph.D. programmes for all NIPERs

A9	Improvement, upgradation and extension of administrative support facilities	2.75	0.25	1.75	0.25	To upgrade, improve and extend <ol style="list-style-type: none"> 1. Administrative support facilities, infrastructure, etc. 2. Transportation mobility systems for research, administration, etc. 3. Implementing CCTV surveillance system. 4. Biometric identification system. 5. Replacement and up-gradation of office equipment, furniture, etc.
A10	Upgradation/ replacement/ repair of student research facilities	8.0	2.0	7.0	3.0	Upgradation/ replacement/ repair of student research facilities, i.e. <ol style="list-style-type: none"> 1. Laboratories. 2. Equipments including their AMC 3. Other student research facilities
A11	R&D Programs on Biologicals and New Chemical Entities	0.1	7.78	0.0	4.56	During XII Plan following new research programmes have been proposed which have been peer reviewed by a high powered scientific committee which evaluated the research programmes from their scientific and technological relevance, work plan and methodology and resources proposed. The suggestions of the high powered peer review committee were factored by all the group leaders while finalising the proposal. Details provided in APPENDIX II.
A12	Linkages/Collaboration with International Institutions of Excellence	0.00	1.00	0.00	1.00	<ol style="list-style-type: none"> 1. Students would be trained in pharmaceutical science domain – both in terms of pedagogy and research in international centres of excellence on the basis of formal exchange programs. 2. It envisages full support for exchange / training programmes for faculty also wherein they would spend 4-10 weeks in globally recognized institutions in further honing their skills and working in collaborative research projects, thereby bringing back to NIPER a world class learning and creative ambience. 3. Students / Researchers / Faculty of counter-part collaborating institute would be invited to spend 4 – 10

						<p>weeks in NIPER for peer to peer interaction as well as for getting trained in skill sets unique to NIPER.</p> <p>4. An annual Joint Workshop structured on topical themes of interest would be conducted at NIPER for all the stake holders. The emphasis in such workshop would be on developing hand on skills of relevance to pharmaceutical industry.</p>
A13	Incentive scheme for Pharmaceutical Industry / CROs	0.25	0.15	0.00	0.40	<p>1. This proposal is to provide Indian Industry world class testing and analytical services at a cost which every user can afford.</p> <p>2. Processes / Products conforming to these tests and analysis would get the highest acceptance at global level</p> <p>3. It would bring NIPER much closer to industry thus creating a win-win situation for both.</p>
A14	High Performance Computer Centre (including upgradation of Campus Wide Computing Facilities)	10.5	2.5	1.5	0.5	<p>Upgradation of Computer Centre will be carried out by providing:.</p> <ul style="list-style-type: none"> • Campus Back Bone on Latest Fiber. • Centrally managed Campus wide Local Area Network. • Centrally managed Wireless Local Area Network • Intelligent building infrastructures System. • Building up of Network Rooms at various Blocks • Network Security • Surveillance using Digital IP cameras • Enterprise Resource Planning • Video conferencing

A. Upgradation of Campus LAN Networking and Wi-Fi Facilities

- **Consistency**
- **Compatibility**
- **Easy troubleshooting**
- **Fault Isolation**
- **Future Proofing**
- **Structured cabling**

B. Enterprise Resource Planning Solution

- Common integrated system platform across different functions and processes of NIPER
- Process standardization across the institute to bring-in unified approach
- Monitor research activities and funds utilization
- Monitoring and governance of the procurement processes
- Mapping of assets and their life cycles
- Analysis of budget and actual data
- An ERP Solution to provide scalability options to accommodate the expected growth plan
- Data integrity across various NIPER functions like departments, centers, administrative units, finance and accounts, etc.
- Facilitate paperless working and provide decision support mechanism

						<ul style="list-style-type: none"> Automate management controls and approvals to reduce cycle time Seamless integration of student information across the institute <p>Real time reporting on the performance of the individual operating departments and a streamlined Management Information System</p> <p>C. Miscellaneous Requirements: Like software, desktops, printers, etc as mentioned in budgetary requirements.</p>
A15	Contingency	1.36	1.77	0.61	1.45	
	SUB-TOTAL	28.56	37.20	12.96	30.41	
	TOTAL	65.76		43.37		
	GRAND-TOTAL	109.13				

Head-wise resources required (Rs. cr)

Capital	Recurring	Total
41.52	67.61	109.13

PART II: Infrastructure activities(SFC II)

The following schemes have been proposed as XII Plan proposal (**PART II: Infrastructure activities**) of NIPER, S.A.S. Nagar.

S. No.	Scheme Title	Scope of work				
		2015-16		2016-17		
		Capital	Recurring	Capital	Recurring	
B1	Development and	3.75	0.25	2.75	0.25	1. Collection, record keeping, storage of NCEs/pharmacological

	upgradation of Central Biological Testing Laboratory					<p>agents/crude herbal extracts</p> <ol style="list-style-type: none"> 2. Characterization of collected/submitted compounds using a range of analytical methods and purification techniques 3. In vitro (cell viability assays, cell based assays, enzyme based assays, oxidative stress analysis, enzyme inhibition, receptor binding etc.) biological assessment of the selected compounds. 4. In vivo toxicity testing and biological assessment of selected compounds in zebra fish model.
B2	Upgradation of Central Instrument Laboratory	6.5	1.0	4.0	0.5	<p>Most of research programmes in NIPER have a significant requirement of analytical and testing equipment, which have a defined life span. During the plan period several new facilities / equipment would be added and a few replaced /upgraded.</p>
B3	Engineering services, creation of civil infrastructure	26.0	0.0	2.45	0.0	<ol style="list-style-type: none"> 1. Extension of existing 6 storey 100 seater boys hostel (Extension of existing New Block excluding dining hall and mess area) (Building works including Fire fighting, furniture, lifts and solar water heating system) 2. Construction of New Lecture Halls (building Works incl. Air Conditioning, Furniture, Audio Visual facilities & Lift) 3. Solar water heating system for New Hostel 4. Strengthening of security wall and fencing around NIPER periphery premises 5. Installation of new tube well including connect with existing lines 6. Drainage system in the campus 7. Rain Water Harvesting (Building: Dosage from Scale up plant, GLP, NBC, MBA, Heritage, New and Old Boys' Hostel, Girls' Hostel and Administration Block) 8. Re-carpeting of internal roads 9. Setting up of Dosage Form (Formulation) Pilot Plant – remaining work. 10. Extension of existing Girls Hostel

						<ul style="list-style-type: none"> 11. Lift for existing 6 storied Hostel 12. Development of Sports Infrastructure 13. Providing Wire Mesh Door in Hostel 14. Extension of Animal House (Additional facility construction) 15. Provision of Sewerage Treatment Plant 16. Provision of Store yard for Engineering Stores in the campus 17. Segregation of Academic and Residential Areas 18. Details provided in APPENDIX I.
B4	Engineering Services- Requirements for Electrical, Mechanical and Telecommunication	5.0	0.0	3.0	0.0	<p>Air Conditioning Works</p> <ul style="list-style-type: none"> 1. Augmentation of Air Conditioning Plant 2. Extension for Air Conditioning Plant Room (Building Work) 3. Modification of existing suction & discharge distribution system <p>Upgradation of Electrical Installation</p> <ul style="list-style-type: none"> 1. Proposal for Extension of Electric load through PSPCL (Govt. Fee) 2. Installation of Sub Station equipment for load extension 3. Extension of Sub- Station (Building Work) 4. Up-gradation and replacement of LT Panel in substation 5. Installation of 1000 kVA Silent DG Set 6. Up-gradation of Siemens EPABX 7. Implementation of Energy Audit recommendation 8. Solar based Power Plant (2-100 kwp) <p>Augmentation of Mechanical works/ Installations</p> <p>UTILITY SECTION</p> <ul style="list-style-type: none"> I (a) Replacement of DM Water plant capacity 9m³/hr complete with treatment modules <li style="padding-left: 20px;">(b) Up-gradation of soft water plant including distribution pumps & storage <li style="padding-left: 20px;">(c) Centralised treated water (DM, Soft, R.O.) distribution outlet & S.S. pipe lining of DM Water & P/F of DM water storage system for Pharma labs

						<p>in Teaching & Research Blocks</p> <p>II (a) Compressor along with related accessories</p> <p>(b) Replacement of Centralised Industrial type vacuum pumping facility for up-gradation</p> <p>III (a) New Utility Services pipelines with frame work including expansion of existing trenches for pipelines</p> <p>(b) Sheet metal covers for the trenches</p> <p>SHEDS</p> <p>IV P/F of sheds for utility pumping area, diesel storage area, workshop machinery & Diesel storage tanks with pumping system including foundation & vehicle, passage with slope</p> <p>V Purchase of vehicle for loading, transfer of materials, equipments, diesel etc. and Portable lifts for manpower to work on outer surface of building / high electrical lightening works</p> <p>VI Creation of centralised common refrigeration Facility located near to Research blocks</p> <p>VII Providing & Installation of split A/C for the Conference room of Auditorium.</p> <p>VIII Installation of Passenger / Goods lift including RCC structure in research blocks</p> <p>IX Construction of 1st floor with additional ground area for Utility Section Area.</p> <p>X Installation of water lifting pumping system for main water supply including electrical supply and construction of pump house unit.</p> <p>Details provided in APPENDIX II.</p>
B5	R&D Centres of Excellence on sustainable ways of drug discovery and development	48.7	0.0	16.29	0.0	<p>In order to strengthen research schemes, NIPER, S.A.S. Nagar has visualized the creation of new specialized centres for undertaking high end research. Such research centres will work on cutting edge futuristic research in the fields of New drug discovery, development and biopharmaceuticals. Such</p>

						research would require state of the art infrastructure facilities to cater to researchers and students. So during this XII five year plan, NIPER, S.A.S. Nagar envisions creation of infrastructural facilities.
B6	NIPER Pharma Incubator	6.5	1.5	3.10	1.5	To create platform for startups, innovation and entrepreneurship withn following objectives; i. Foster and sustain entrepreneurial spirit ii. Set-up an end-to-end pharmaceutical research, technology generation and manufacturing system for Entrepreneurs and MSME sector. iii. Create an in-licensing and out-licensing ecosystem for research led Entrepreneurs and MSMEs iv. Create and offer specialised services to its niche sector.
B7	Contingency	4.1	0.875	1.3	0.40	
	SUB-TOTAL	100.55	3.625	33.50	2.65	
	TOTAL	104.175		36.15		
	GRAND-TOTAL	140.325				

Head-wise resources required (Rs. cr)

Capital	Recurring	Total
134.05	6.275	140.325

Grand Total (Part 1+ Part 2) =109.13+140.325= Rs 249.455 Crore



राष्ट्रीय औषधीय शिक्षा एवं अनुसंधान संस्थान
National Institute of Pharmaceutical Education & Research
सैक्टर-67, ए.ए.एस. नगर, पंजाब-160062

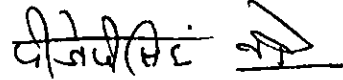
NIPER/RGO/Committees/2015/ 1057

09.10.2015

आदेश

In pursuance of Ministry of Chemicals & Fertilizers, Department of Pharmaceuticals letter No. F.No. 50020/16/2010-NIPER dated 30.04.2015, the Institute is constituting the Finance Committee as under:

- | | |
|--------------------------------------------------------------------------------------------------------|-------------------------------|
| 1. Director, NIPER, S.A.S. Nagar | Chairman (Ex. Officio) |
| 2. Dean, NIPER S.A.S. Nagar | Member(Ex. Officio) |
| 3. Deputy Secretary (IFD). DoP | Member |
| 4. Financial Advisor, PGIMER, Chandigarh (Education) | Member |
| 5. Sh. Raj Kumar Droch, Finance & Accounts Officer, Microbial Technology (CSIR), Chandigarh (Research) | Member |
| 6. Director Finance, Dr. Reddy Laboratories (Industry) | Member |
| 7. Registrar, NIPER, S.A.S. Nagar | Member Secretary(Ex. Officio) |



[विंग कमांडर पी. जे. पी. सिंह वडैच (सेवानिवृत्त)]
कुलसचिव

Copy to :

1. Sr. PPS to Secretary, DoP
2. Chairman and all members of the Finance Committee, NIPER
3. Joint Secretary, DoP
4. Concerned File

MINISTRY OF CHEMICALS AND FERTILIZERS

(Department of Chemicals and Petrochemicals)

New Delhi, e 30th October, 2003

G.S.R. 391.—In pursuance of Sub-section (1) of Section 36 of the National Institute of Pharmaceutical Education & Research Act, 1998 (13 of 1998), the Central Government hereby publishes the following first Statutes of the National Institute of Pharmaceutical Education and Research framed under sub-section (1) of Sections 27 of the said Act by the Board of Governors of the said Institute with the previous approval of the Visitor, namely :—

Statutes of the National Institute of Pharmaceutical Education and Research**1. Short Title**

These Statutes shall be called the National Institute of Pharmaceutical Education and Research Statutes

2. Definitions

- (a) 'An' means The National Institute of Pharmaceutical Education and Research Act, 1998
- (b) 'Academic Planning and Development Committee' means the Academic Planning and Development Committee of the Institute;
- (c) 'Authorities', 'Officers' and 'Professors' respectively mean the authorities, officers and professors of the Institute;
- (d) 'Board' means the Board of Governors of the Institute;
- (e) 'Chairman' means the Chairman of the Board;
- (f) 'Dean' means the Dean of the Institute;
- (g) 'Director' means the Director of the Institute;
- (h) 'Finance Committee' means the Finance Committee of the Institute;
- (i) 'Head of the Department' means the Head of the concerned department of the Institute;
- (j) 'Institute' means The National Institute of Pharmaceutical Education and Research, Sahibzada Ajit Sing Nagar incorporated under the National Institute of Pharmaceutical Education and Research Act 1998.
- (k) 'Laboratory Services, Building and Works Committee' means the Laboratory Services, Building and Works Committee of the Institute;
- (l) 'Ordinances' means the Ordinances of the Institute;
- (m) 'Principal Library and Information Officer' means the Principal Library and Information Officer of the Institute;
- (n) 'Principal scientific Officer' means the Principal Scientific Officer of the Institute.
- (o) 'Registrar' means the Registrar of the Institute;
- (p) 'Senate' means the Senate of the Institute; and
- (q) 'Warden' in relation to a Hall of Residence of the Institute means a Warden thereof.

3. THE BOARD, THE SENATE AND THE COMMITTEES**3.1 The Board****3.1.1 Composition**

The composition of the Board shall be in accordance with the provisions of Section 4(3) of the Act

3.1.2 Functions and Powers

In addition to the provisions under Section 8 of the Act, the Board shall have the following powers :

- (a) to create posts subject to availability of funds, to determine the number and emoluments of such posts and to define the duties and conditions of service of the employees of the Institute;
- (b) to appoint Professor, Associate Professors, Assistant Professor and other staff in equivalent grades, as may be necessary on the recommendation of the selection committees constituted for the purpose;
- (c) to regulate and enforce discipline among employees in the accordance with the Statutes, the Ordinances and the Regulations;
- (d) to manage and regulate the finances, accounts, investments, property, business and all other administrative affairs of the Institute and for that purpose, to appoint such agents as it may think fit;

3-5467/03 - 2

- (e) to fix the limit of the recurring and the non-recurring expenditure for a year on the recommendations of the Finance Committee;
- (f) subject to the provisions of the Act, to invest any money belonging to the Institute including any unapplied income in any manner it thinks fit or in the purchase of immovable property in India;
- (g) subject to the provisions of the Act to transfer or accept transfers of any movable or immovable property on behalf of the institute;
- (h) to provide buildings, premises, furniture, apparatus and other means needed for carrying on the work of the Institute:
 - (i) to enter into, vary, carry out and cancel contracts on behalf of the Institute;
 - (j) to entertain, adjudicate upon and if thought fit, to redress any grievances of the employees of the Institute;
- (k) to select a common seal for the Institute and provide for the custody and use of such seal;
- (l) to delegate any of its powers to the Chairman, the Director, the Dean, the Registrar or such other employee or authority of the Institute or to a committee appointed by it, as it may deem fit;
- (m) to exercise such other powers and perform such other duties as may be conferred or imposed on it by the Act, or the Statutes.

3.1.3 Meetings

- (a) The Board shall ordinarily meet three times during a calendar year.
- (b) The meetings of the Board shall be convened by the Chairman either on his own initiative or at the request of the Director or on a requisition signed by not less than three members of the Board. A requisitioned meeting shall be a special meeting to discuss only those items of agenda for which the requisition is made. The requisitioned meeting shall be convened by the Chairman on a date and time convenient to him within fifteen days of receipt of requisition for such a meeting.
- (c) The requisite quorum for a Board meeting shall be 1/3rd of the actual strength of the Board
- (d) The registrar shall invite members of the Board for its meeting by giving not less than three weeks notice from the date of such meeting. The members shall attend the meeting in their official/personal capacities as the case may be. However, period of the notice may be reduced or waived with the prior consent of the Chairman, Director and three other members of the Board.
- (e) The agenda shall be circulated by the Registrar to the members of the Board at least a week before the meeting. The Chairman may permit inclusion of any item for which due notice could not be given.
- (f) The Board shall decide all issues by a majority of the votes of the members present including the Chairman. If the votes be equally divided, the Chairman shall have a casting vote.
- (g) The Chairman shall preside over meetings of the Board. The Director shall preside over meetings in the absence of the Chairman.

Provided that if the Chairman and the Director are absent and the issue to be considered is urgent and important, the members present shall elect one from amongst themselves to preside over the meeting to consider the particular issue.
- (h) The ruling of the Chairman in a meeting in regard to all questions of procedure shall be final.
- (i) If a member of the Board fails to attend three consecutive meetings without leave of absence from the Board he shall cease to be a member of the Board.
- (j) All orders and decisions of the Board shall be authenticated by the signature of the Registrar or any other person authorised by the Board in this behalf.
- (k) The minutes of the proceedings of a meeting of the Board shall be drawn up by the Registrar and circulated to all members of the Board present. The minutes along with amendments, if any, suggested shall be placed for confirmation at the next meeting of the Board. After the minutes are confirmed and signed by the Chairman of the Board, they shall be recorded in a minute book which shall be kept open for inspection of the members of the Board at all times during office hours.

3.2 The Senate

3.2.1. Composition

In accordance with Section 13 of the Act the following shall be the members of the Senate :

- (a) Director, who shall be the Chairman of the Senate;
- (b) Dean,
- (c) Five Professors of the Institute nominated in terms of Section 13(c) of the Act.
- (d) Three persons, nominated in terms of Section 13(d) of the Act.
- (e) One Associate Professor of the Institute appointed by rotation;
- (f) One Assistant Professor of the Institute by rotation.
- (g) Head of the Department of any department unrepresented by the above.

3.2.2 Functions

Subject to the provisions of the Act, the Senate shall :

- (a) frame and revise curricula and syllabi for the courses of studies for the various departments;
- (b) make arrangements for the conduct of examinations;
- (c) declare the results of the examinations or to appoint committees or officers to do so and to make recommendations to the Board regarding conferment of degrees and diplomas;
- (d) appoint Advisory Committees or Expert Committees or both for the Departments/Centres of the Institute to make recommendations on academic matters connected with their working; The Head of Departments/Centres concerned shall act as convenor of such Committee;
- (e) appoint Committees from amongst faculty members of the Institute and experts from outside to advise on such specific academic matters as may be referred to any such Committee by the Senate;
- (f) consider the recommendations of the Advisory Committees attached to various Departments/Centres and that of expert and other Committees and take such action as required;
- (g) periodically review the working of the Departments/Centres and take appropriate action as required;
- (h) review periodically the working of the Library and Information Services/Central Instrumentation Centre and any other non-teaching department/centre and take such action as required;
- (i) frame such regulations and rules consistent with the Statutes and the Ordinances regarding the functioning of the Institute, admission, discipline, attendance, award of fellowships, scholarships studentships, medals and prizes, fees, residences, concessions, and campus life attendance;
- (j) exercise general supervision over the academic policies of the Institute and to give directions regarding method of instruction and co-operative teaching among institutions;
- (k) to consider matters of general academic interest either on its own initiative or on a reference by Departments/Centres or the Board and to take appropriate action thereon.

3.2.3 Meetings

- (a) The Senate shall meet as often as necessary but not less than once in six months.
- (b) The meetings of the Senate shall be convened by the Chairman of the Senate either on his own initiative or on a requisition signed by not less than twenty per cent of the members of the Senate. A requisitioned meeting shall be a special meeting to discuss only those items of agenda for which the requisition is made. The requisitioned meeting shall be convened by the Chairman of the Senate, on date and time convenient to him within fifteen days of receipt of requisition for such a meeting. At least 1/3rd of total number of members should be present in the meeting to complete quorum.
- (c) The Director shall preside over meetings of the Senate. In his absence the Dean shall preside and in the absence of both the Director and the Dean, the senior most Professor present shall preside.
- (d) The Director may call an emergency meeting of the Senate at short notice to consider urgent issues.
- (e) The ruling of the Chairman of the Senate in regard to all questions of procedure shall be final.
- (f) The minutes of the proceedings of a meeting of the Senate shall be drawn up by the Registrar and circulated to all members of the Senate. The minutes along with amendments, if any, suggested shall be placed for confirmation at the next meeting of the Senate. After the minutes are confirmed and signed by the Chairman

of the Senate, they shall be recorded in a minute book which shall be kept open for inspection of the members of the Senate at all times during office hours.

- (g) All orders and decisions of the Senate shall be authenticated by the signature of the Registrar or any other person authorised by the Senate in this behalf.

3.3 Academic Planning and Development Committee

It is hereby declared that the Academic Planning and Development Committee shall also be an authority within the meaning of Section 12 of the Act.

3.3.1 Composition

3.3.1.1 The committee shall consist of the following persons :

- (a) An eminent academician/scientist/technologist of cognate disciplines, to be nominated by the Board of Governors from outside the Institute to be the Chairman of the said Committee.
- (b) the Director of the Institute;
- (c) one Professor of the Institute nominated by the Board in consultation with the Director;
- (d) six external experts representing different disciplines of pharmaceutical and allied sciences, from academic and research Institutions and from pharmaceutical industries to be nominated by the Board on the recommendation of the Director; and
- (e) the Dean, who shall be the member secretary;

The committee shall be reconstituted every three years, one third of the members nominated under clause 3.3.1.1(d) will retire each year and be replaced by fresh nomination. However in the first Committee one third of the members will retire after one year and another one third after two years respectively.

3.3.2 Functions

- (a) To aid and advise the Board on academic planning and development and to monitor the academic research and consultancy activities of the Institute.
- (b) To recommend to the Board with regard to (i) the creation of posts on the staff and abolition thereof, and (ii) the emoluments and duties attached to such posts.
- (c) To suggest ways and means for interdisciplinary coordination in teaching and research.

3.3.3 Meetings

- (a) The Academic Planning and Development Committee shall meet as often as necessary but not less than twice in a year.
- (b) The meetings of the Academic Planning and Development Committee shall be convened by the Director. The Dean shall preside over the meetings in the absence of the Chairman of the Committee. At least 1/3rd of total number of members should be present in the meeting to complete quorum.

3.4 Finance Committee

It is hereby declared that the Finance Committee shall be an authority within the meaning of Section 12 of the Act.

3.4.1 Composition

3.4.1.1 The Committee shall consist of the following persons :

- (a) the Director of the Institute who shall be the Chairman of the Committee;
- (b) the Dean, who shall also preside over the meeting in the absence of the Director;
- (c) the Director (Finance)/Dy. Financial Advisor of the Department of Chemicals and Petrochemicals, Government of India.
- (d) three persons nominated by the Board to represent education, research and industry;
- (e) the Registrar who shall be the Member Secretary.

3.4.1.2 The Committee shall be reconstituted every three years.

3.4.2 Functions

- (a) to examine the accounts and to scrutinize the proposals for expenditure;

- (b) to consider the actual accounts and financial estimates of the institute and submit the same to the Board.
- (c) to fix limits of the total recurring expenditure and the total non-recurring expenditure of the year based on the income and resources of the Institute.

3.4.3 Meetings

The Committee shall meet as often as necessary but not less than twice a year. At least 1/3rd of the total number of members should be present in the meeting to complete quorum.

3.5 Laboratory Services, Building and Works Committee

It is hereby declared that the Building and Works Committee shall also be an authority within the meaning of Section 12 of the Act.

3.5.1 Composition

The Committee shall consist of the following members :

- (a) The Director, who shall be the Chairman of the Committee;
- (b) The Dean, who shall also preside over the meetings in absence of the Director;
- (c) one nominee of the Board;
- (d) Director (Finance)/Deputy Financial Advisor of the Department of Chemicals and Petrochemicals, Government of India or his nominee;
- (e) An officer of CPWD not below the rank of superintending Engineer to be nominated by the Ministry of Urban Development, Government of India, or his nominee not less than an Executive Engineer;
- (f) One Professor of the Institute to be nominated by Board in consultation with Director of the Institute.
- (g) Chief Maintenance Engineer of the Institute;
- (h) The Registrar, who shall be the member Secretary.

3.5.2 Functions

- (a) to approve all major capital works after securing from the Board the necessary administrative approval and expenditure sanction;
- (b) to give the necessary administrative approval and expenditure sanction for minor works and works pertaining to maintenance and repairs, within the grant placed at the disposal of the Institute for the purpose beyond the value of Rs. 2.00 lakhs.
- (c) to record the estimates of cost of buildings and other capital works, minor works, repairs, maintenance and the like;
- (d) to make technical scrutiny as may be considered necessary by it;
- (e) to enlist suitable contractors and accept tenders and provide directions for departmental works where necessary;
- (f) to fix rates not covered by tender and settle claims and disputes with contractors;
- (g) to perform such other functions in the matter of construction of buildings and development of land for the Institute as the Board may entrust to it from time to time;
- (h) to develop system for maintenance of the laboratory services of the Institute.

3.5.3 Meetings

- (a) The Committee shall meet as often as necessary but not less than twice a year. At least 1/3rd of the total number of members should be present in the meeting to complete quorum.
- (b) In emergent cases the Chairman of the Committee may exercise the powers of the Committee. Such cases shall be reported by him to the Committee and the Board at the next meeting of the Committee and of the Board.

3.6 Selection Committee

²Quorum : 50% of the total strength of the members in addition to the chairman.

There shall be selection committees for making recommendations for the appointment to the post of the Professors, Associate Professors, Assistant Professors, Registrar, Principal Library and Information Officer, Principal Scientific Officer and other posts. The Selection Committee for appointment to the posts specified in column 1 of Table I below shall consist of the persons specified in the corresponding entry in column 2.

12. PAY STRUCTURE AND RELATED ISSUES

12.1 The pay structure shall be comparable with that applicable to the faculty in the Indian Institute of Technology (IITs)

12.2 The pay scales of the faculty shall be kept as applicable to the faculty of Indian Institute of Technology. It implies that the current pay scales be as below :

Category	Pay Scales
Lecturer	8000-275-13500
Lecturer (Senior Scale)	10,000-325-15200
Assistant Professor	12,000-420-18300
Associate Professor	16,400-450-20000
Professor	18400-500-22400
Director	25000 (Fixed)
Professor of Eminence	25000 (Fixed)
Endowment Chairs	By negotiation

12.3 Any decision with regard to the revision of pay scales in IITs in the future shall be applicable to the faculty of NIPER.

13. OTHER AMENITIES/ALLOWANCES

13.1 The faculty of NIPER shall be entitled to Dearness Allowance, Medical Allowance, House Rent Allowance, Transport Allowance, City Compensatory Allowance, LTC and other allowances and loans as applicable in IITs.

13.2 In addition, the faculty of the Institute shall be given the following special allowances to help them in their professional development.

13.2.1 MEMBERSHIP OF PROFESSIONAL SOCIETIES/PROCUREMENT OF JOURNALS

Every faculty member shall get 50% subsidy on the cost of membership or of the journals upto a maximum of Rs. 5,000/- per year, which shall be paid on production of vouchers.

13.2.2 BOOK ALLOWANCE

Every faculty member shall get a book allowance upto maximum of Rs. 5000 per year, which shall be paid on production of vouchers. The books shall ultimately form a part of the Institute's Library accession.

13.2.3 DEPUTATION TO ATTEND CONFERENCE

Faculty members may be permitted to attend scientific and technical conferences to present their work. Such deputation will not exceed one national conference per year and one international conference every 3 years provided the paper for presentation has been accepted by the organisers of the conference or the concerned faculty member has been invited to deliver a lecture or to preside at a conference/ meeting or is an office bearer at the conference.

14. POWERS, DUTIES AND FUNCTIONS OF THE DIRECTOR, DEAN, HEAD OF DEPARTMENT AND REGISTRAR OF THE INSTITUTE

The powers, duties and functions of the Director, Dean, Head of Department and Registrar, specified in column 1 of Table II below shall be those specified in the corresponding entry in column 2.

TABLE II

(1)	(2)
Director	(a) To incur expenditure in accordance with the procedure as may be laid down by the Board from time to time. (b) To fix, on the recommendations of the Selection Committee, the initial pay an incumbent at a stage higher than the minimum of the scale but not involving more than five increments in respect of posts to which appointment can be made by him under the powers vested in him by the provisions of the Act.

(1)

(2)

- (c) In exceptional cases and subject to availability of funds, the Director shall have the power to create temporary posts with the approval of the Chairman for not more than two years' duration on approved scales of pay and report to the Board provided that no such post, of which the Director is not the appointing authority, shall be so created.
- (d) To appoint the Dean from amongst the Professors of the Institute.
- (e) To designate from amongst the Professors of a department as head of the Department. If there is no Professor in a department the Director at his discretion may designate an Associate/Assistant Professor of that department as Head of the Department for interim period.
- (f) To appoint Warden(s) from amongst the Professors/Associate Professors/Assistant Professors of the Institute.
- (g) To appoint such persons as the Director may feel deem fit to perform the duties of the Registrar when the office of the Registrar is vacant or when the Registrar is, by reason of illness, absence or any other cause, unable to perform the duties of his office.
- (h) The power of a Head of Department for purposes of rules in the Accounts Code, the Fundamental and Supplementary Rules and other rules of the Government in so far as they are applicable or may be made applicable to the conduct of the business of the Institute.
- (i) All contracts for and on behalf of the Institute, except the one between the Institute and the Director, shall when authorised by a resolution of the Board passed in that behalf, be in writing and be expressed to be made in the name of the Institute and every such contract shall be executed on behalf of the Institute by the Director or Registrar, but the Director/Registrar shall not be personally liable in respect of anything under such contract.
- (j) To convene or cause to be convened meetings of the Board, the Senate, Academic Planning and Committee, Finance Committee and Laboratory Services, Building and Works Committee.
- (k) To invite persons from outside the Institute as Visiting faculty or consultants in areas where adequate expertise is not available in the Institute on terms to be decided by him on the recommendation of the Academic Planning and Development Committee.
- (l) To waive recovery of over-payment, to write off irrecoverable losses and of irrecoverable value of stores lost or rendered unserviceable due to fair wear and tear upto an amount to be decided by the Board in any individual case subject to such stipulations as may be made by the Board from time to time.
- (m) To appoint such person as he may deem fit to perform the duties of the office when the office of the Director is vacant or when the Director is, by reason of illness, absence, or any other cause, unable to perform the duties of his office, provided however, such arrangements shall not exceed 30 days. The current charge arrangements for the post of Director, beyond 30 days should have the approval of the Board of Governors.
- (n) May, with the approval of the Board, delegate any of his powers, responsibilities and authorities vested in him by the Act and the Statutes to one or more members of academic or administrative staff of the Institute.

(1)

(2)

- (o) In the absence of the Chairman to be the ex-officio Chairman of the Board and in the absence of the Chairman to preside at the convocations of the Institute for conferring degrees and be entitled to be present at, and to address, any meeting of any authority or other body of the Institute, but shall not be entitled to vote there unless he is a member of such authority or body.
- (p) To see that the Act, the Statutes, Ordinances and the Regulations are duly observed, and shall have all powers necessary to ensure such observance.
- (q) To take disciplinary action against the employees, and to suspend them pending inquiry to administer warnings to them or to impose any penalty in accordance with the rules.

Provided that no such penalty shall be imposed unless the person concerned has been given a reasonable opportunity of being heard and showing cause against the action proposed to be taken in regard to him.

An appeal shall lie to the Chairman against any order of the Director imposing any of the penalties.

- (r) Shall hold office for a term of five years from the date on which he enters upon his office and shall be eligible for reappointment.

Provided that the Visitor may direct that a Director, whose term of office has expired, shall continue in office for such period, not exceeding a total period of one year, as may be specified in the direction.

- (s) Notwithstanding anything contained in clause (r) above a person appointed as Director shall, if he completes the age of sixty five years during the term of his office or any extension thereof, shall retire from office.

Amended vide letter no. 52/8/98-PI-III/NIPER dated 28 February, 2002.

Amendment : BOG resolved to delete the clause 14 (s) w.e.f. date of approval of amendment to clause 9 of Statutes of NIPER.

Dean

- (a) To assist the Director in academic and administrative work and in maintaining liaison with other institutions of higher learning and research and also with industrial undertaking and other employees.
- (b) Shall hold office for a period of three years and be eligible for reappointment for one more term provided the upper age limit does not go beyond 62 years.

Head of Department
Registrar

To perform such functions as may be determined by the Director.

- (a) To invite bodies entitled to nominate representatives of the Board to do so within a reasonable time not ordinarily exceeding four weeks from the date on which such invitations are issued by him. The same procedure shall be followed for filling casual vacancies of the Board.
- (b) To be ex-officio Secretary of the Board, the Senate, the Finance Committee, Laboratory Services, Building and Works Committee but shall not be deemed to be a member of any of these authorities unless otherwise specified.
- (c) To be the custodian of the records, the common seal and such other property of the Institute as the Board shall commit to his charge.
- (d) To issue all notices convening meetings of the Board, the Senate, the Board of Studies and of any committees appointed by the authorities of the Institute.
- (e) To keep the minutes of all the meetings of the Board, the Senate, and of any other committees appointed by the authorities of the Institute.

(1)

(2)

- (f) To conduct the official correspondence of the Board, the Senate and the various committees.
- (g) to arrange for and superintend the examinations of the Institute in accordance with the manner prescribed by the Ordinances.
- (h) Subject to the control of the Board the Registrar shall :—
- (1) Exercise general supervision over the funds of the Institute and shall advise it regarding the financial matters of the Institute.
 - (2) Perform such other financial functions as may be assigned to him by the Director or as may be prescribed by the Statutes or the Ordinances.

Provided that the Registrar shall not incur any expenditure or make any investment without the previous approval of the Director.

- (3) Hold and manage the property and investments of the Institute including trust and endowed property.
 - (4) Ensure that the limits fixed by the Board for recurring and non-recurring expenditure for a year are not exceeded and that all moneys are utilised on the purposes for which they are granted or allotted.
 - (5) Be responsible for the preparation of annual accounts and the budget of the Institute and for their presentation to the Board.
 - (6) Keep a constant watch on the state of the cash and bank balances and on the state of investments.
 - (7) Watch the progress of the collection of revenue and advise on the methods of collection employed.
 - (8) Ensure that the registers of buildings, land, furniture and equipment are maintained up-to-date and that stock-checking is conducted, of equipment and other consumable materials in all Offices, Departments, Centres and Laboratories of the Institute.
 - (9) Call for explanation for unauthorised expenditure and for other financial irregularities and suggest disciplinary action against persons at fault.
 - (10) Call for from any Office, Department, Centre and Laboratory maintained by the Institute any information or returns that he may consider necessary for the performance of his duties.
 - (11) The receipt of the Registrar or of the person or persons duly authorised in this behalf by the Director for any money payable to the Institute shall be sufficient discharge for payment of such money.
- (f) To represent the Institute in suits or proceedings by or against the Institute, sign powers of attorney and verify pleading or deput his representative for the purpose.
- (j) To perform such other duties as may be specified in the Statues, the Ordinances or the Regulations or as may be required, from time to time, by the Board or the Director.

No 50012/4/2014 NIPER (Vol. II)
 Government of India
 Ministry of Chemicals & Fertilizers
 Department of Pharmaceuticals

Shastri Bhawan, New Delhi
 Dated 27.08.2015

Subject	Minutes of the SFC Meeting in respect of NIPER, Mohali 12th Five Year Plan.
Date & Time	25.08.2015 at 11:30 AM
Venue	Secretary Chamber Room No. 218 A Wing, Shastri Bhawan, New Delhi
Members	Annexure- I

The Secretary (Pharma) Chaired the SFC Meeting and at the outset the Chairperson welcomed all the participants present. Dr. K.K. Bhutani, Officiating Director, NIPER, Mohali presented and explained the scheme proposals to the SFC members.

2. Summary of Proposal:

The SFC proposal consists of two parts viz. (Part I -Teaching Activities and Part II - Infrastructure Activities) to be undertaken in 2 years.

Component under Teaching Activities are:

- A1. Students' fellowships, stipend
- A2. Students research contingency including lab consumables
- A3. Upgradation of Central Animal Facility
- A4. Knowledge Resource Centre (Library)
- A5. Modernization of Pharmaceutical Analysis facilities.
- A6. Upgradation / Maintenance of Centre for Pharmaceutical Nanotechnology
- A7. Examination & Academic
- A8. Joint Entrance Examination
- A9. Improvement, upgradation and extension of administrative support facilities
- A10. Upgradation/ replacement/ repair of student research facilities
- A11. R&D research programs (including AILMS proposal for T.B.)
- A12. Linkages / collaborations with international Centres of excellence
- A13. Incentive scheme for pharmaceutical industry/ CROs
- A14. High Performance Computer Centre (including upgradation of Campus Wide Computing Facilities)
- A15. Contingency

Component under Infrastructure Activities are:

- B1. Development and upgradation of Central Biological Testing Laboratory
- B2. Upgradation of Central Instrument Laboratory
- B3. Engineering services, creation of civil infrastructure
- B4. Engineering Services-Requirements for Electrical, Mechanical and Telecommunication

- B5. R&D Centres of Excellence on sustainable ways of drug discovery and development
 B6. NIPER Pharma Incubator
 B7. Contingency

2. The SFC discussed the SFC proposal threadbare.

3. The proceedings/takeaways taken by the Standing Finance Committee are as under:-

- SFC-II / B-5
- SFC-I / B-6
- SFC-III / B-3
- SFC-I / B-5
- SFC-II / B-4
- i. R&D facilities for the student's laboratories should be at par with the proposed facilities for the Industry (Amount: Rs. 48.70 + Rs. 16.29 = Rs. 64.99 cr.).
 - ii. Of 12 incubators, 6 incubators be earmarked to students based on demand while the remaining 6 incubators be provided for industry. NIPER, Mohali shall adopt IIT Mumbai, incubator as a model (Amount: Rs. 8.00 + Rs. 4.60 = Rs. 12.60 cr.)
 - iii. Approved the infrastructure already been created by incurring an expenditure of Rs. 3.89 cr (Extension of Girls Hostel Rs. 331.00 lacs, providing of two number lifts in boys hostel Rs. 47.01 lacs and providing of wire gauge and window shutters for new boys hostel Rs. 11.32 lacs), keeping in view of the urgency, on recoupment basis with the prior approval of Institute Extra Budgetary Receipts (IEBR) Committee (Amount: Rs. 26.0 + Rs. 2.45 = Rs. 28.45 cr.).
 - iv. The component regarding extension of six storey 100 seater boys hostel is actually for providing of additional 100 seater boys hostel (Amount: Rs. 26.0 + Rs. 2.45 = Rs. 28.45 cr.).
 - v. There shall be a monitoring committee, comprising Joint Secretary (NIPER), Director NIPER, Mohali and a Representative of PMC, to review the progress at two monthly intervals to ensure timely implementation to avoid cost overrun.
 - vi. NIPER, Mohali shall adhere to the plinth area approx. Basement Floor 2000 sqm., Multi-storey Lab. Block with RCC framed structure 14000 sqm., Fire fighting (with wet riser system) 16000sqm., Fire alarm system 16000 sqm., Air condition 14000 sqm., Internal roads/Paths 14000sqm. and Distribution line 100 dia or blow. 14000 sqm., as proposed to be developed as part of scheme for construction of R&D Laboratory block which shall be retained as per the SFC document (Amount: Rs. 48.7 + Rs. 16.29 = Rs. 64.99 cr.).
 - vii. NIPER, Mohali shall avail the scheme on roof top solar renewable energy of Ministry of New and Renewable Energy. Secretary (Pharma) suggested that the NIPER, Mohali to avail Rs. 1 cr earmarked by Ministry of Renewable Energy for upgrading the proposed 100 KWp capacity to 200 KWp capacity. For this NIPER, Mohali should also Liaison with Ministry of New and Renewable Energy and SECI (Solar Energy Corporation of India) (Amount: Rs 5.00 + Rs. 3.00 = Rs. 8.00 cr.).
 - viii. Secretary (Pharma) informed that Department will immediately release Rs. 19.50 cr plan fund to the NIPER, Mohali during FY 2015-16 and supplementary funds would be requested, to be provided at RE stage and also relating to the fund for the FY 2016-17.
 - ix. Secretary (Pharma) has suggested that the NIPER, Mohali should come up with timeframe (PERT chart) for carrying out its activities so that schemes proposed could be completed within 2 years as proposed.

- x. Secretary (Pharma) suggested that NIPER, Mohali may appoint Project Management Consultant (PMC) from Public Sector Enterprises providing PMC Services on nomination basis based on Government of India guidelines so that time is saved in engaging the consultant.
- xi. NIPER, Mohali shall follow Government of India instructions on austerity measures issued from time to time.
- xii. Rest of the scheme as given below were also duly approved by SFC as per the SFC documents.

S. No.	Scheme Title	Requirement (Rs. cr)			
		2016-16		2016-17	
		Capital	Recurring	Capital	Recurring
A1	Students' fellowships, stipend	0.0	7.94	0.0	7.94
A2	Students research contingency including lab consumables	0.0	5.41	0.0	5.41
A3	Upgradation of Central Animal Facility	2.5	3.0	0.0	0.5
A4	Library	2.0	4.0	0.0	4.0
A5	Modernization of Pharmaceutical Analysis facilities	0.75	0.25	0.75	0.25
A6	Center for Pharmaceutical Nanotechnology	0.25	0.25	1.25	0.25
A7	Academics & Examination	0.05	0.45	0.05	0.45
A8	Joint Entrance Examination	0.05	0.45	0.05	0.45
A9	Improvement, upgradation and extension of administrative support facilities	2.75	0.25	1.75	0.25
A10	Upgradation/ replacement/ repair of student research facilities	8.0	2.0	7.0	3.0
A11	R&D Programs on Biologicals and New Chemical Entities	0.1	7.78	0.0	4.56
A12	Linkages/ Collaboration with International Institutions of Excellence	0.00	1.00	0.00	1.00
A13	Incentive scheme for Pharmaceutical Industry / CROs	0.25	0.15	0.00	0.40
A14	High Performance Computer Centre (including upgradation of Campus Wide Computing Facilities)	10.50	2.5	1.50	0.50
A15	Contingency	1.36	1.77	0.61	1.45
	SUB-TOTAL	28.56	37.20	12.96	30.41
	TOTAL		65.76		43.37
	GRAND TOTAL				109.13

S.No	Scheme/Title	2015-16		2016-17	
		Capital	Recurring	Capital	Recurring
B1	Development and upgradation of CRL	3.75	0.250	2.75	0.25
B2	Upgradation of CRL	6.50	1.000	4.50	0.50
B7	Contingent	4.10	0.375	1.30	0.40
	SUB-TOTAL	14.35	2.125	8.05	1.15
	TOTAL	16.475		9.20	
	GRAND TOTAL	25.675			

xiii. SFC approved the NIPER, Mohali proposal of Rs 249,455 or with the above observations.

The meeting ended with the vote of thanks from the Chair.



(Dr. V.K. Subburaj)

Secretary to the Government of India

011-23381573

subburaj@ias.nic.in

Copy to:

1. Sr. PPS to Secretary (Pharma)
2. PS to SS&FA
3. PS to JS (MAA)/PPS to JS(SF)/ All Directors/DS of DoP
4. Officiating Director, NIPER, Mohali
5. Sh. Sandeep Kumar, Deputy Director, Department of Expenditure.
6. Sh. Alok Kumar, IAS, Adviser (Pharma), Niti Ayog.
7. SO (NIPER) - for hosting the minutes in the Dept. website.
8. Rajbhasha Section for translation and hosting in website.

Annexure-I

List of participants and Absentee List

Institution	Officers Present	Contact No. & email id
DoP	Dr. V.K. Subburaj, Secretary,	011-23381573 subburaj@ias.nic.in
	Dr. M. Ariz Ahammed, Joint Secretary,	011-23074010 ariz@gov.in
	Shri Anil Jain, Under Secretary, NIPER,	9871182741 Anil.j@nic.in
DoP IFD	Sh. Rajiv Yadav, SSAFA	
	Sh. A.V. Lakra, DS, IFD	
D/o Expenditure	Sh. Sandeep Kumar, Deputy Director	
NIPER, Mohali	Dr. K. K. Bhutani, Officiating Director	09417203802 director@niper.ac.in
	Shri Jitender Kumar Chandel, Deputy Registrar (Finance and Accounts)	09592044465 drfa@niper.ac.in
	Dr. Ipsita Roy, Associate Professor	09815935538 ipsita@niper.ac.in

Note Niti Ayog member could not be present.

CHARAN GUPTA CONSULTANTS PVT LTD.
 A D GUPTA FIAI (Actuary) M.No.00068
 K K WADHWA FIAI (Actuary) M.No.00209
 K K DHARNI FIAI (Actuary) M.No.00051

B - 40, Sector - 52
 Noida - 201 307. U.P.
 Tel - 0120-4914444.
 E-mail - computer@vsnl.com
 E-mail - computer1@charangupta.com
 E-mail - computer2@charangupta.com
 www.charangupta.com
 Dated : 26/05/2015

Ref - CGCPL/51563/407/30/P/207

**National Institute of Pharmaceutical Education & Research
 (NIPER)**
 67, Mohali,
 Punjab- 160062.

Sub - Actuarial valuation of the pension liability as on 31/03/2015, as per AS-15(R).

INDEX

Sr. No.	Items	Paras
1	Scope & purpose	1
2	Summary of Results	2
3	Summary of membership data	3
4	Actuarial Assumptions	4
5	Actuarial Method	5
6	Plan Assets	6
7	Scale of Benefits	7
8	Actuarial Value	8
9	Bifurcation of PBO current & Non-current liability	10
Bill Attached Separately		



CHARAN GUPTA CONSULTANTS PVT LTD.

A D GUPTA FIAI (Actuary) M.No.00068

K K WADHWA FIAI (Actuary) M.No.00209

K K DHARNI FIAI (Actuary) M.No.00051

B - 40, Sector - 52

Noida - 201 307. U.P.

Tel - 0120-4914444.

E-mail - computer@vsnl.com

E-mail - computer1@charangupta.com

E-mail - computer2@charangupta.com

www.charangupta.com

Dated : 26/05/2015

Ref - CGCPL/51563/407/30/P/207

National Institute of Pharmaceutical Education & Research**(NIPER)**

67, Mohali,

Punjab- 160062.

Sub - Actuarial valuation of the pension liability as on 31/03/2015, as per AS-15(R).

1. Scope & Purpose

I have carried out the actuarial valuation of your company for the above purpose. This report has been prepared with the objective of identifying the financial status and required disclosure figures of the pension liability of the employees, in accordance with AS-15(R). This report does not constitute a formal funding actuarial valuation of the Plan and does not present any recommendation of contributions or funding levels. The amounts given in this report are in Indian rupees (INR).

2. Summary of results

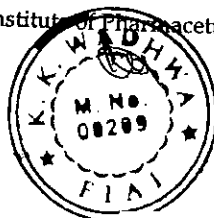
The table below shows a summary of the key results of the report including past results as applicable.

	Assets / Liability	31/03/2015
a	Present value of obligation	26,72,27,777
b	Fair value of plan assets	--
c	Net assets / (liability) recognized in balance sheet as provision	(26,72,27,777)

3. Summary of membership data

	As at	31/03/2015
a)	Number of employees	Onroll- 78 Retiree-06
b)	Total Monthly Salary (Lakhs)	55.28
c)	Average Past Service (Years)	16.46
d)	Average Age (Years)	47.18
e)	Average remaining working life (Years)	12.82

National Institute of Pharmaceutical Education & Research - 31/03/2015 P- 2



4. Actuarial Assumptions

a) Economic Assumptions

The principal assumptions are the discount rate & salary growth rate. The discount rate is generally based upon the market yields available on Government bonds at the accounting date with a term that matches that of the liabilities & the salary growth rate takes account of inflation, seniority, promotion and other relevant factors on long term basis. Valuation assumptions are as follows which have been agreed by the company:

	31/03/2015
i) Discounting Rate	8.00
ii) Future salary Increase	6.00
iii) Expected Rate of return on plan assets	0.00

b) Demographic Assumption

i) Retirement Age (Years)	60
ii) Mortality Table	IALM (2006 - 08)
iii) Ages	Withdrawal Rate (%)
Up to 30 Years	3.00
From 31 to 44 years	2.00
Above 44 years	1.00

5. Actuarial Method

a) I have used the projected unit credit (PUC) actuarial method to assess the plan's liabilities of exit employees for retirement, death-in-service and withdrawals (Resignations / Terminations).

b) Under the PUC method a projected accrued benefit is calculated at the beginning of the period and again at the end of the period for each benefit that will accrue for all active member of the plan. The projected accrued benefit is based on the plan accrual formula and upon service as of the beginning or end of period, but using member's final compensation, projected to the age at which the employee is assumed to leave active service. The plan liability is the actuarial present value of the projected accrued benefits as on the date of valuation.

6. Plan Assets

The details of the plan assets are as provided by the company.



7. Scale of Benefits

The pension liability arises on account of future payments, which are required to be made in the event of retirement, death in service or withdrawal. I give below a summary of the principal rules of the plan.

- a) 50 % limit on last salary to be indicated.
- b) D A details to be given.
- c) Scale of spouse pension.
- d) Scale of commutation on restoration.

8. Actuarial Value

Present value of obligation as at the end of period (31/03/2015)	26,72,27,777
------------------------------------------------------------------	--------------

9. Bifurcation of PBO at the end of year as per schedule III to the companies Act, 2013.

		31/03/2015
a)	Current liability (Amount due within one year)	37,80,287
b)	Non-Current liability (Amount due over one year)	26,34,47,490
c)	Total PBO at the end of year	26,72,27,777

10. In preparing this report:-

(a) I have ad-here to guidance notes issued by the institute of Actuaries of India from time to time.

(b) I have relied on the completeness and accuracy of the information provided to me orally and in writing by or on behalf of the company and its employees. I have not completed any detailed validation checks on the information provided. I have, however, carried out broad consistency checks. Company may ascertain the correctness of scale of benefits & other information provided by the company & contained in this report before using it.




CHARAN GUPTA CONSULTANTS PVT LTD

11. This Report is provided solely for the Company's use and for the specific purposes indicated above. Except where I expressly agree in writing, it should not be disclosed or provided to any third party, other than as provided below. In the absence of such consent and an express assumption of responsibility, no responsibility whatsoever is accepted by me for any consequences arising from any third party relying on this report or any advice relating to its contents. The Company may make a copy of this Report available to its auditors, but I make no representation as to the suitability of this Report for any purpose other than that for which it was originally provided and accept no responsibility or liability to the Company's auditors in this regard. The company should draw the provisions of this paragraph to the attention of its auditors when passing this report to them.

12. As per the request of the establishment, part disclosures under AS - 15 (R) are being provided.

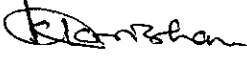
AS-15G



K.K. WADHWA
FIAI M. No. 00209
ACTUARY

Category wise Pension Liability

S.No.	Unit Name	Numbers	Liability
1	On Roll	78	232513502
2	Pensioners	6	34714275
	Total	84	267227777


K.K. WADHWA
FIAI M. No. 00209
ACTUARY

Sr No.	NAME	LIABILITY	UNIT
1	1025 Dr.K.K.Bhutani	10119732	ON ROLL
2	2026 SH RAJESH MOZA	7054420	ON ROLL
3	1152 MR. M. ARBINDO	532318	ON ROLL
4	1026 Dr.Saranjit Singh	9595375	ON ROLL
5	2101 SH HARDIP SINGH	1306338	ON ROLL
6	1029 Dr.Pratipal Singh	12516563	ON ROLL
7	PROF. P. RAMARAO	9662432	ON ROLL
8	1034 Dr.U.C.Banerjee	14563340	ON ROLL
9	DR. PARIKSHIT BANSAL	5942901	ON ROLL
10	1035 Dr.Prasad V.Bhartam	4844143	ON ROLL
11	1038 Dr.Kulbhushan Tikoo	4679139	ON ROLL
12	1061 Dr.Asit K.Chakrabort	9571867	ON ROLL
13	1063 Dr.Rahul Jain	6522034	ON ROLL
14	1066 Dr. SHYAM SUNDER SHA	5169599	ON ROLL
15	1069 Dr.Sanjay M.Jachak	4704653	ON ROLL
16	1070 Dr.Arvind Kumar Bans	4854320	ON ROLL
17	1073 Dr.Inderpal Singh	3732921	ON ROLL
18	1074 Dr.Pramil Tiwari	4225118	ON ROLL
19	1084 Dr.Elizabeth Sobhia	4393949	ON ROLL
20	1085 Dr.Gopabandhu Jena	5388779	ON ROLL
21	1090 MRS. PRABHA GARG	5029704	ON ROLL
22	1101 SH ASHOK K AGGARWAL	5222862	ON ROLL
23	1120 SH A S SANDHU	3969135	ON ROLL
24	1123 DR SAVITA SINGH	3040216	ON ROLL
25	1150 DR ALKA MITTAL	2710026	ON ROLL
26	1153 SH AJAY SHARMA	2650469	ON ROLL
27	1154 MS NISHI SHARDA	2998580	ON ROLL
28	1155 ANUBHA SINGH	2203369	ON ROLL
29	1158 DR K SRINIVASAN	1910260	ON ROLL
30	1159 DR MRS MEENAKSHI JAI	1624935	ON ROLL
31	1160 MR SARABJIT SINGH	1762588	ON ROLL
32	1162 DR BALKAR SINGH	1363241	ON ROLL
33	1186 SH VIKAS GROVER	2329357	ON ROLL
34	1187 SH INDERJIT SINGH	2006217	ON ROLL
35	1189 MS KANWALJIT KAUR	2130613	ON ROLL
36	1191 DR SRIKANT BHAGAT	1743342	ON ROLL
37	1192 SH BALJINDER SINGH	1779635	ON ROLL
38	1194 SH G MURUGESAN	1527223	ON ROLL
39	1196 SH TEJINDER PAL SING	1920060	ON ROLL
40	1199 MR GUNJAN	1292198	ON ROLL
41	1201 MR DEEPAK JOSHI	1305252	ON ROLL
42	1225 SH PRAMOD KUMAR	1562834	ON ROLL
43	1227 MR SATENDRA RAWAT	984583	ON ROLL
44	1230 MR SANJAY VIR	935038	ON ROLL

45	1237 SH RANVIR SINGH	1591654	ON ROLL
46	1238 MS RUPINDER PAL KAUR	1666541	ON ROLL
47	1240 SH KAMAL KISHOR	1559015	ON ROLL
48	1241 SH K PRASANNA	1439198	ON ROLL
49	1243 SH VILENDER SINGH	1304781	ON ROLL
50	1244 SH MOHD YAMIN SAIFI	1236476	ON ROLL
51	1245 SH VIJAY KUMAR MISHR	1178660	ON ROLL
52	1246 SH SANDEEP SACHDEVA	1250604	ON ROLL
53	1248 SH MOHD SHAHID KHAN	1085500	ON ROLL
54	1249 SH S BHADRE SHANTARAM	1150979	ON ROLL
55	1253 MR RAJAN KUMAR TRIPA	734793	ON ROLL
56	1255 MR RAKESH KUMAR	657038	ON ROLL
57	1256 MR AMIT KUMAR SRIVAS	675384	ON ROLL
58	1259 MR ASHISH CHAUHAN	547688	ON ROLL
59	1261 MR TARA DUTT BHATT	611447	ON ROLL
60	2040 SH GAUTAM KHANNA	2781322	ON ROLL
61	2042 SH M JOSE	3299507	ON ROLL
62	2060 SH K S SAINI	3173267	ON ROLL
63	2061 SH K G N ACHARYA	4048077	ON ROLL
64	2072 SH MANOJ KUMAR SOOD	1274270	ON ROLL
65	2073 SH DEEP RAJ	1246555	ON ROLL
66	2090 SH ANIL GUPTA	2279303	ON ROLL
67	2099 MR ANURAG SHARMA	1106984	ON ROLL
68	2100 SH AMIT THAPAR	917240	ON ROLL
69	2103 MS PRAKRITI AGGARWAL	908377	ON ROLL
70	2110 MS SUKHWINDER KAUR	1595851	ON ROLL
71	2111 MS NISHA SHARMA	1580621	ON ROLL
72	2113 MRS YOGITA	1143184	ON ROLL
73	2114 MRS MEENA	874337	ON ROLL
74	2117 SH BINAY KUMAR SINHA	884754	ON ROLL
75	2120 MS VIJAY SHARMA	1555458	ON ROLL
76	2124 MR NITYANANDA GAHAN	1075616	ON ROLL
77	2130 SH SANJEEV BHARDWAJ	1598527	ON ROLL
78	2140 MS UMA	1098816	ON ROLL
79	DR. C.L.KAUL	1506993	RETIREE
80	SH. HARPAL SINGH	2975278	RETIREE
81	SH.SUBRATA SARKAR	7938957	RETIREE
82	MR. DARPESH SINGH	2037984	RETIREE
83	MRS SWAPNA MUKHOPADHYAY	8582234	RETIREE
84	MR. BHUPINDER SINGH	11672829	RETIREE
	Total	267227777	

List of APDC meetings held till date

S.No	APDC meeting	Held on
1.	First	19.05.2001
2.	Second	08.11.2001
3.	Third	14.09.2002
4.	Fourth	04.01.2003
5.	Fifth	17.01.2004
6.	Sixth	10.12.2004
7.	Seventh	15.02.2006
8.	Eighth	02.02.2009
9.	Ninth	29-30.10.2009
10.	Tenth	05.03.2010
11.	Eleventh	11.12.2010
12.	Twelfth	25-26.03.2011
13.	Thirteenth	19.11.2011
14.	Fourteenth	18-19.04.2012
15.	Fifteenth	11-12.12.2012
16.	Sixteenth	21.11.2013
17.	Seventeenth	25.07.2014

NATIONAL INSTITUTE OF PHARMACEUTICAL EDUCATION & RESEARCH

SECTOR-67, S.A.S. NAGAR - 160062

BANK RECONCILIATION STATEMENT AS ON 29.02.2016

BALANCE AS PER CASH BOOK

7196694.59

ADD - CHEQUE ISSUED BUT NOT PRESENTED FOR PAYMENT

<u>S.NO.</u>	<u>CHEQUE NO.</u>	<u>DATE</u>	<u>AMOUNT</u>
1	951362	25.11.2013	28500.00
2	953911	07.01.2015	3068.00
3	954173	27.02.2015	6568.00
4	1062	28.08.2015	4645.00
5	1146	21.09.2015	1000.00
6	1401	20.11.2015	36645.00
7	1402	20.11.2015	60685.00
8	1403	20.11.2015	30758.00
9	1404	20.11.2015	50874.00
10	1516	15.12.2015	41625.00
11	1593	11.01.2016	2818.00
12	1596	12.01.2016	6143.00
13	1627	19.01.2016	13294.00
14	1646	19.01.2016	1353514.00
15	1648	19.01.2016	34270.00
16	1652	21.01.2016	35000.00
17	1657	22.01.2016	7819.00
18	1662	22.01.2016	1300.00
19	1669	29.01.2016	43200.00
20	1670	29.01.2016	20236.00
21	1676	29.01.2016	31378.00
22	1687	05.02.2016	20000.00
23	1699	05.02.2016	2120.00
24	1712	11.02.2016	75064.00
25	1714	11.02.2016	12000.00
26	1730	16.02.2016	3220.00
27	1736	22.02.2016	7655.00
28	1739	22.02.2016	25000.00
29	1740	22.02.2016	1050.00
30	1742	23.02.2016	150.00
31	1744	24.02.2016	10000.00
32	1745	24.02.2016	3599.00
33	1746	24.02.2016	4000.00
34	1748	24.02.2016	1551.00
35	1749	24.02.2016	12000.00
36	1750	24.02.2016	19419.00
37	1751	24.02.2016	9770.00
38	1752	24.02.2016	6506.00
39	1753	24.02.2016	3339.00
40	1754	24.02.2016	4789.00
41	1755	24.02.2016	1748.00
42	1756	24.02.2016	1648.00
43	1757	24.02.2016	8179.00
44	1758	24.02.2016	2149.00
45	1765	24.02.2016	44425.00
46	1766	24.02.2016	1719910.00
47	1767	24.02.2016	313445.00

48	1768	24.02.2016	612019.00	
49	1770	29.02.2016	103200.00	
50	1771	29.02.2016	252289.00	
51	1772	29.02.2016	13756.00	
52	1773	29.02.2016	16000.00	
53	1774	29.02.2016	51525.00	
54	1775	29.02.2016	1175491.00	
55	1776	29.02.2016	139933.00	
				6490289.00
				13686983.59
LESS AMOUNT DEPOSITED BUT NOT CREDITED				
1	rec-761&762	26.11.2015	50.00	
2	Appli. Fee	16.02.2016	12500.00	
3	Appli. Fee	17.02.2016	9000.00	
4	Appli. Fee	17.02.2016	6000.00	
5	Appli. Fee	17.02.2016	4750.00	
6	Appli. Fee	17.02.2016	8500.00	
7	Appli. Fee	18.02.2016	4750.00	
8	Appli. Fee	18.02.2016	8500.00	
9	Appli. Fee	18.02.2016	11000.00	
10	Appli. Fee	19.02.2016	9500.00	
11	Appli. Fee	19.02.2016	19750.00	
12	Appli. Fee	19.02.2016	12250.00	
13	Appli. Fee	22.02.2016	25500.00	
14	testing	26.02.2016	8588.00	
15	testing	29.02.2016	9160.00	
16	testing	29.02.2016	10000.00	
17	testing	29.02.2016	12480.00	172278.00
				13514705.59
ADD AMOUNT CREDITED BY BANK				
1	con/project	09.04.2015	9288.00	
2	8000-7000	28.04.2015	1000.00	
3	neft	01.09.2015	1835.00	
4	neft	26.10.2015	100000.00	
5	neft	19.11.2015	41644.00	
6	interest	01.02.2016	2.00	
7	neft	06.02.2016	112493.00	
8	gas subsidy	18.02.2016	166.45	
9	neft	26.02.2016	672000.00	
				938428.45
				14453134.04
LESS AMOUNT DEBITED BY BANK				
1	31.03.2015	PROJECT	7024.00	
2	31.03.2015	CON.	6.00	
3	feb	bank charges	1714.00	
4	25.02.2015	bill	71254.00	
				79998.00
BALANCE AS PER BANK STATEMENT AS ON 29.02.2016				14373136.04

NIPER(2015-2016)

Sector-67

Mohali

Inst- STATE BANK OF PATIALA--55034549623 Book
PH-VII, MOHALI

25-Feb-2016 to 29-Feb-2016

Date	Particulars	Vch Type	Vch No./Excise Inv.No.	Debit	Credit
25-2-2016	Cr Opening Balance			94,63,585.59	
25-2-2016	Cr Cash-NIPER	Contra	93	27,000.00	
26-2-2016	Cr (as per details)	Receipt-NIPER	N Rcpt-1030	1,51,33,151.00	
	SBOP^65247581194^29.02.2016^6%^NIPER	1,50,00,000.00 Cr			
	INTEREST CREDITED	1,33,151.00 Cr			
	Cr TESTING CHARGES-CIL	Receipt-NIPER	N Rcpt-1031	8,588.00	
	Dr (as per details)	Payment-NIPER	N Pmt-1375		63,31,763.00
	STIPEND MASTER STUDENTS	21,38,219.00 Dr			
	STIPEND MASTER STUDENTS	26,09,127.00 Dr			
	STIPEND (Sponsered)	1,23,138.00 Dr			
	LIC.FEE	3,325.00 Cr			
	ELECTRICITY CHARGES (EMPLOYEES)	3,881.00 Cr			
	STIPEND NIPER PHD	14,74,345.00 Dr			
	LIC.FEE	2,850.00 Cr			
	ELECTRICITY CHARGES (EMPLOYEES)	3,010.00 Cr			
	Dr PENSION	Payment-NIPER	N Pmt-1376		16,478.00
	Dr (as per details)	Payment-NIPER	N Pmt-1377		2,07,278.00
	PENSION	2,21,327.00 Dr			
	INCOME TAX EMPLOYEES-TDS-92A	14,049.00 Cr			
	Dr Salary Payable -NIPER	Payment-NIPER	N Pmt-1378		91,69,862.00
29-2-2016	Cr TESTING CHARGES-CIL	Receipt-NIPER	N Rcpt-1033	9,160.00	
	Cr TESTING CHARGES-CIL	Receipt-NIPER	N Rcpt-1035	10,305.00	
	Cr TESTING CHARGES-CIL	Receipt-NIPER	N Rcpt-1036	10,000.00	
	Cr TESTING CHARGES-CIL	Receipt-NIPER	N Rcpt-1037	12,480.00	
	Dr DR G B JENA	Payment-NIPER	N Pmt-1379		1,03,200.00
	Dr M/S SUNRISE ENTERPRISES	Payment-NIPER	N Pmt-1380		2,52,289.00
	Dr M/S ACE DESIGNERS	Payment-NIPER	N Pmt-1381		13,756.00
	Dr M/S TOWA OPTICS INDIA P. LTD.	Payment-NIPER	N Pmt-1382		16,000.00
	Dr INDIA INTERNATIONAL CENTRE	Payment-NIPER	N Pmt-1383		51,525.00
	Dr M/S SOHAN LAL MEHTA	Payment-NIPER	N Pmt-1384		11,75,491.00
	Dr (as per details)	Payment-NIPER	N Pmt-1385		1,39,933.00
	M/S SIGNAL LOGISTICS PVT LTD	59,954.00 Dr			
	M/S VIEWPOINT ADVERTISING AGENCY	79,979.00 Dr			
	Dr Closing Balance			2,46,74,269.59	1,74,77,575.00
				2,46,74,269.59	2,46,74,269.59

Bal. Cash Book

STATEMENT OF ACCOUNT

STATE BANK OF PATIALA
 NIPENOHALI
 SECTOR-6 NIPER
 MOHALI
 Branch Code: 51018
 Branch Phone
 IFSC: STBP0001018
 MICR: 160007063
 Account No.: 55034549623
 Product: SBCHQ-GEN-FUB-IND-NONRURAL-INDR
 Currency: INR

M/s. NIPER NIPER
 SEC 67 MOHALI PH 10.
 ROPAR
 MOHALI
 160062

Date: 01/03/2016
 Cleared Balance: 1,43,71,488.04 Cr
 Time: 11:28:54

E-Branch Director: [Signature]
 Uncleared Amount: 000

Drawing Power: 000
 Nominee Name:

+MOD Bal: 143,71,488.04 Cr
 Limit: 000

IntRate: 400% pa.

Statement from 25/02/2016 to 01/03/2016

Post Date	Value Date	Details	Chq. No.	Debit	Credit	Balance
		BROUGHT FORWARD :				14619383.04 Cr
		NIPER SAL				
29/02/16	29/02/16	TRF TO 0098533510188				
		CAS PRES CHQ	001743	19206.00 ✓		14600177.04 Cr
		50807 CCPC- CHANDIGA				
		AT PAR SB CHQ				
29/02/16	29/02/16	BOB ABHIDEEP MILL				
		CAS CORR PR CHQ	001743	19206.00 C		14619383.04 Cr
		50807 CCPC- CHANDIGA				
		AT PAR SB CHQ				
29/02/16	29/02/16	CAS PRES CHQ	001743	19206.00 C		14600177.04 Cr
		50807 CCPC- CHANDIGA				
		AT PAR SB CHQ				
29/02/16	29/02/16	ABHIDEEP MILLS STORE				
		DEBIT				
				207278.00 ✓		14392899.04 Cr
29/02/16	29/02/16	PENSION FEB 2016				
		WDL TFR		16478.00 ✓		14376421.04 Cr
		NEFT STEP 51606009358				
		TRF TO 0099506509144				
29/02/16	29/02/16	CAS CASH CHEQUE	001737	13590.00 ✓		14362831.04 Cr
		AT PAR SB CHQ				
		SANJEEV BHARDWAJ				
29/02/16	29/02/16	OWN CHQ XFER DF	909062		10305.00 ✓	14373136.04 Cr
		DD PAID				
01/03/16	01/03/16	CAS PRES CHQ	001756	1648.00		14371488.04 Cr
		50807 CCPC- CHANDIGA				
		AT PAR SB CHQ				
		COB ROSHAN LAL VER				

Bal. as per Bank Book.

CLOSING BALANCE :

1,43,71,488.04 Cr

Statement Summary
 Dr Count: 16
 Cr Count: 5

1,63,92,465.00

1,58,61,662.00