3.1.1 Grants received from Government and non-governmental agencies for research projects / endowments in the institution during the last five years (INR in Lakhs)

Name of the	Name of the	Departmen	Year of	Amount	Duration	Name of	Type
research project/	Principal	t of	Award	Sanctioned	of the	the	(Government/non-
endowment	Investigator/Co-	Principal			project	Funding	Government)
Synthesis and							
development of							
Novel, Stable QD's				49.88 Lakhs			
with suitable device			Applied	(Budget of			
for Pharmaceutical,	Dr Anuvrat Sharma	Pharmaceutic	Proposal	Proposal	1.5 years	BIRAC	Government
healthcare and		S		submitted)			
Biotech industry							
applications							
Workshop on				75000			
harmonization of	Dr Arifa Begum SK	Phamaceutics	Applied	(Budget of	Applied in	PCI	Government
Curriculum-Industry	Di runa begam six	1 Hamaccatics	for	Proposal	2023		Government
academic meet			Workshop	submitted)			
Development and							
evaluation of							
polyherbal	Dr.Sumalatha govindu	Pharmacolog	2022	84666	2 ***	AICTE	Government
formulation with	& Dsouza Marina	y	2022	04000	3 years	AICIE	Government
potent anti-epileptic							
activity							
Targetted drug							
delivery in the							
treatment of diseases							
of heart and							
vasculature using	Dr.Srinivas						
sterically stablized	Nimmagadda	Pharmacetics	2022	616666	3 Years	AICTE	Government
long circulating stealth	&						
liposomes and	Sampurna						
combination with	Chengalval						
depot polymeric	a						
scaffolds							

Workshop on recent trends in Clinical Data Management	Dr. B Sridevi& Dr. Arifa Begum SK	Pharma cy Practic	2022	15000	1 Year	Telengana Academy of sciences	Non-Government
Development and evaluation of polyherbal formulation with potent anti-epileptic activity	Dr.sumalatha govindu & Dsouza Marina	Pharmacolog y	Proposal Submitte d	84666 (Budget of Proposal submitted)	Applied in 2021	AICTE	Government
Targetted drug delivery in the treatment of diseases of heart and vasculature using sterically stabkized long circulating stealth liposomes and combination with depot polymeric scaffolds	Dr.Srinivas Nimmagadda &Sampurna Chengalvala	Pharmacetics	Proposal Submitte d	616666 (Budget of Proposal submitted)	Applied in 2021	AICTE	Government
One day National seminar on Zebra fish: A super fast and precise animal model for A to Z Human diseases	Dr A V Badarinath & Dr S Gurunath	Pharmacolog y	Proposal Submitte d	90000	Applied in 2020	ICMR	Government

Development and Standardization of Broad Spectrum herbomineral Nutrient tablets for Universal Cancer prevention	Dr A V Badarinath & Dr N Harishankar	Pharmaceutics	Proposal Submitte d	97800 (Budget of Proposal submitted)	Applied in 2019	Ministry of AYUSH	Government
Preclinical Anti- Diabetic studies of Polyherbal Formulation on Streptozotocin induced diabetis	Dr Mrinmay Das	Pharmaceutics	Proposal Submitte d	50000 (Budget of Proposal submitted)	Applied in 2019		
Intranasal insitu gel Nanoparticles of Anticancer drugs for Brain	Dr Y Phalguna	Pharmaceutics	Proposal Submitte	50000 (Budget of Proposal submitted)	Applied in 2019		
Development of Instrument tobacco smoke induced lung cancer chamber as effective natural	Dr A V Badarinath	Pharmaceutics	Proposal Submitte d	50000 (Budget of Proposal submitted)	Applied in 2019		

PRINCIPAL
Bharat Institute of Technology
Mangalpally (V) Ibrahimpatnam (M),
R.R. Dist - 501 510. Telangana.

3.1.1 Grants received from Government and non-governmental agencies for research projects/endowments in the institution during the last five years (INR in Lakhs)

DVV Comment: Please provide a list of research project grants received in Assessment years. Include details about the award type, the agencies that granted at and the amount.

Grants applied and released:

S.no	Name of the research	Name of the	Department of Principal	Applied	Released	Amount Sanctioned	Name of the
	project/Endowment	investigator/Co- investigator	of Principal Investigator	year	year	Sanctioned	Funding Agency
1	Development and evaluation of polyherbal formulation with potent anti-epileptic activity	Dr Sumalatha Govindu & Dsouza Marina	Pharmacology	2021	2022	84666	AICTE
2	Targeted drug delivery in the treatment of diseases of heart and vasculature using sterically stabilized long circulating stealth liposomes and combination with depot polymeric scaffolds	Dr Srinivas Nimmagadda and Sampurna Chengalvala	Pharmaceutics	2021	2022	616666	AICTE
3	Workshop on recent trends in clinical data management	Dr B Sridevi & Dr. Arifa Begum SK.	Pharmacy practice	2022	2022	15000	Telengana Academy of sciences

ALL INDIA COUNCIL FOR TECHNICAL EDUCATION

Nelson Mandela Marg, Vasant Kunj, New Delhi 110070

RPS - Sanction Letter

File No. 8-133/FDC/RPS/POLICY-1/2021-22

The Drawing and Disbursing Officer All India Council for Technical Education Nelson Mandela Marg, Vasant Kunj, New Delhi-110070,

1 6 1 F 5 7177 Date: _

Release of a sum of Rs. 74082/- being the 1st installment of the total grant of Rs. 84666/- for conduct of Project under Sub: Research Promotion Scheme (RPS) during the financial year 2021-22. Sit,

With reference to the proposal submitted by the institute, this is to convey the sanction of the Council for payment of Rs. 74082/- (Rupees Seventy Four Thousand Eighty Two Only) as 1st installment out of a total approved grant in-aid of Rs.84666/- for conduct of a Project under the Research Promotion Scheme (RPS), as per details given below

I.	Name and address of the Beneficiary Institution (University / College / Institution)	:	Registrar / Director / Principal, BHARAT INSTITUTE OF TECHNOLOGY, MANGALPALLY VILLAGE, IBRAHIMPATNAM MANDAL 501510, TELANGANA
u.	Principal Investigator's Name & Dept./Course	;	Dr. SUMALATHA GOVINDU (PHARMACY)
ш.	Co-Principal Investigator's Name & Dept.	:	DSOUZA MARINA (PHARMACOLOGY)
IV.	Grant-in aid Sanctioned		Rs. 84666/- (Rs. 63499/- for non-recurring and Rs.21167/- for recurring expenditure)
٧.	Amount to be Released during the year 2021-22 (as 1 st installment)	·	Rs. 74082/- (Rs. 63499/- Full amount of non-recurring & Rs. 10583/-recurring i.e. 50 % of total sanctioned recurring grant)
VI.	Project Duration	:	3 Years
	Title of the Project	;	Development and Evaluation of Polyherbal formulation with
VII.	Title of the Project		potent antiepileptic activity

I. Release of funds:

- 1. The amount of the grant shall be drawn by the Drawing and Disbursing Officer (DDO), All India Council for Technical Education, New Delhi on the Grants in aid bill and shall be disbursed to and credited to the account of BHARAT INSTITUTE. OF TECHNOLOGY, MANGALPALLY VILLAGE, IBRAHIMPATNAM MANDAL 501510, TELANGANA through PFMS.
- 2. The sanctioned grant-in aid is debitable to the Major Head "601.12.a (RPS Plan)" Gen. and is valid for payment during the financial year 2021-22.
- 3. The sanction issues in exercise of the powers delegated to the Council. It is also certified that grant-in-aid is being released in conformity with the rules and principles of the Scheme
- 4. The grant in-aid is being released in conformity with the Terms & Conditions as well as norms of the scheme as already communicated and also being communicated in this letter.
- II. Maintenance of account by the Institute/PI:
- 1. Funds covered by this grant shall be kept separately and would not be mixed up with other funds so as to know the amount of interest accrued on the grant.
- 2. The grant is intended to cover items of expenditure/equipment approved by AICTE.
- 3. Acknowledgement of receipt of grant and letter of acceptance of terms and conditions is to be submitted to AICTE within 15 days from the receipt of the grant to the following address

Director (Faculty Development Cell), AICTE, Nelson Mandela Marg, Vasant Kunj, New Delhi-110070

wongerpany (v), foreninipetaem (to R.A. Dist - 501 510. Telangana



... mirra Olya...

- 4. The accounts of the grantee will be opened for test check by the Council or Comptroller & Auditor General of India or by any officer designated by them
- 5. The Principal and PI of the institute are requested to verify the correctness of the undermentioned bank account/RTGS/PFMS dotails cultivated are requested to verify the correctness of the undermentioned bank account/RTGS/PFMS details submitted by them alongwith the Proposal, in which the grant is being released. In case of any omission, the same should be reported to AICTF immediately along with refund of entire grant:

	Pan No.	Bank Name	Bank	Bank Branch Add.		, entire p.		
	AAATC25	STATE	BONGLOOR	II NO	Account Holder Name	Account Type	Account Number	IFSC Code
	371	BANK OF		WO 2-84 GANGANAGAR		Saving	62101095523	SBIN0021069
Ì		INDIA		OUNGLOOK VIII AGE	PRINCIPAL	Account		
1				IBRAHIMPATNAM MANDAL, R.R.	GENERAL			
				DISTRICT, TELANGANA- 501510	ACCOUNT			

- 6. The grantee Institution shall observe all financial norms and guidelines as prescribed by the AICTE/Government of India from time to time. Grantee institution must follow GFR guidelines in procuring the sanctioned items and maintain an audited record of assets acquired wholly or substantially out of the grant-in aid and a register for assets shall be maintained by the Institute in the prescribed form i.e. GFR-19.
- 7. Interest accrued on the sanctioned grant-in-aid will be reported and refunded to AICTE and not adjusted against the

III. General Instructions:

- 1. It should be ensured that no RPS project in favour of the same P.I. has been sanctioned during the last 03 years before utilizing this amount and the matter be brought to the notice of this Council immediately in case a faculty is sanctioned multiple RPS Projects.
- 2. The duration of Project is 03 years and the date of release of the grant by AICTE shall be taken as the date of commencement of the project. The Registrar/Director/Principal shall intimate about the receipt of the grant to AICTE. Any Expenditure, incurred prior to issuance of this Sanction Order, would not allowed to be adjusted in the grant and if the University/Institution do not take-up the project work within 6 months of the receipt of the grant, approval shall ipso facto lapse and the Institute has to necessarily refund the entire grant to AICTE along with interest within a month. In case the grant is not refunded within said duration 18% interest will be levied on it. The grant has to be refunded to AICTE, through RTGS as per details given below:

Account Number	55113199952
Name of the Account Holder	Member Secretary, AICTE, New Delhi
Bank Name	State Bank of India
Branch Name	Shashtri Bhawan, New Delhi
IFSC Code	SBIN0050203

- 3. The Institute may constitute a Project Monitoring Committee (PMC). The composition of the PMC shall be as under:
 - i. Principal/Director of the institution (Chairperson)
 - ii. Two HODs from institute (Members)
 - In case of private institute one subject expert from government institute, not below the rank of Associate Professor iii. (Member)
 - Coordinator of the project (Member Secretary) iv.
- 4. The grant shall be utilized strictly for the purpose as specified in the sanction letter. Re-appropriation of funds from one Head to another is strictly not permitted viz. Recurring and non-recurring Heads. Further, the equipment(s)/item(s) purchased should be as per the specifications and individual item-wise costs sanctioned by AICTE, and not taking the total grant sanctioned as one entity. Item-wise purchase cost shall be matched with the sanctioned cost, and the cost of item purchased below the sanction cost shall be restricted as actual cost. If the item purchase cost is higher than its sanctioned cost, the cost shall be restricted to the sanctioned cost and the additional amount shall be met by the institute from its own resources.
- 5. Similarly, the recurring grant can be used for the items (non-recurring) sanctioned by the AICTE. No money be used for going abroad to attend Conference / seminars. However, for presenting a Paper in a Seminar / Conference within the country, the travel expenses may be met from the recurring grant.

Contd 3/

Mangaipany tes, within patnem live, R.R. Dist - 501 510. Telangana.



- 6 No request for additional grant over and above the sanctioned grant shall be considered by the AICIE. The additional amount, if any, expended beyond the sanctioned pear that he are by the execute from
- The institute/University shall not charge any overheads on this Project and will provide all the administrative support and timely release of grant to PI for completion of the second control of the
- 8. The grantee shall utilize grants only on approved items as per list of equipment attached. However, if the grantee wishes to recast the Project, approval of Council and the project of recast the Project, approval of Council must be obtained for the revised item of expenditure and they will maintain proper accounts of the expenditure as no recounts of the recounts of t accounts of the expenditure as per the norms/procedures of AICTE/Government of India. The revised proposal should be within the total grant capetion of the norms/procedures of AICTE/Government of India. The revised proposal should be within the total grant sanctioned and duly supported with reasons and recommendations of the Project Monitoring
- The assets acquired wholly or substantially out of All India Council for Technical Education's grant shall not be disposed or encumbered or united to the disposed or encumbered encumbered or utilized for the purpose other than those for which the Grant was given without proper sauction of the oil India Council for Tachnical Education. India Council for Technical Education.
- 10. Each project sanctioned by AICTE is assigned a specific Reference Number, which is given on pre-page. All correspondence address to AICTE regarding the project must quote this number alongwith year of sanction of the project, otherwise correspondence may not be entertained
- 11. The grantee shall follow the terms and conditions of Research Promotion Scheme (RPS) as laid down by the Council
- IV. Submission of documents by the institute/PI to AICTE:

PARTY.

- A. Documents to be submitted within one month of completion of each financial year:
 - Annual Progress Report, indicating therein the number of patents, publications or any other achievement.
 - Utilization Certificate, Audited Utilization Certificate, Receipt & Payments, Statement of Expenditure.
 - Audited record of assets acquired wholly or substantially out of the grant-in-aid and a register for assets in the in prescribed form i.e. GFR-19.
- Separate Bills/vouchers related to Non-recurring and recurring expenditures duly signed & stamped by the PL& Head of the institution.
- Stock entry register duly verified by the Store in charge and PL& counter signed by Head of institution
- B. Documents to be submitted within two month of completion of the Project:
 - The consolidated Utilization Certificate (UC) and Receipt & Payment Account for the Project duration, dely audited
- Consolidated audited statement of expenditure, to the effect that the grant has been utilized for the purpose for which it has been sanctioned. It should contain the head-wise break up of expenditure made from the grant-in aid provided by the Council.
- Project Completion Report duly signed & stamped by the PI & Head of the institution and Project Evaluation Committee (PEC) Members.
- ÍV. Principal Investigator/institute to submit the Feed Back Form in AICTE format.
- The prescribed formats for submission of necessary mandatory documents and Terms & Conditions may please bedownloaded from www.aicte-india.org/schemes/research-innovations-development-schemes.

Note: Any deviation from the above said time schedule will cause serious action against the institute.

Contd. 4/ Liarat Institute Mangalpally (V), Ibrahimpaton (M) R.R. Dist - 501 510. Telen



v. Approved List of Items under Non-recurring grant:

S. No.	Approved Items (As per proposal)		
۸.	Non-recurring	No. of Units	Amount recommended
i) ii) iii)	Actophotometer Electroconvulsiometer HPTLC	1	(in Rs.)
В,	Recurring i.e. 50% of total approved recurring grant) for Contingencies & Consumables only	1	Rs. 63499/- Rs. 10583/-
	Grand Total (A) + (B)		Rs. 74082/-

Copy forwarded for information and necessary action to:

1. REGISTRAR / DIRECTOR / PRINCIPAL,

BHARAT INSTITUTE OF TECHNOLOGY, MANGALPALLY VILLAGE, IBRAHIMPATNAM MANDAL -501510, **TELANGANA**

2. NAME OF PRINCIPAL INVESTIGATOR,

Dr. SUMALATHA GOVINDU, (PHARMACY) BHARAT INSTITUTE OF TECHNOLOGY, MANGALPALLY VILLAGE, **IBRAHIMPATNAM MANDAL-501510,** TELANGANA

- 3. OFFICE OF DIRECTOR GENERAL OF AUDIT GENERAL REVENUES, AGCR BUILDING I.P. ESTATE, NEW DELHI-110002.
- 4. GUARD FILE

((1

(Col. B. Venkat) Director (FDC)

Bharat Institute of Technology Mangalpally (V), Ibrahimpater (A R.R. Dist - 501 510. Tel

Datel

ALL INDIA COUNCIL FOR TECHNICAL EDUCATION

Nelson Mandela Marg, Vasant Kunt, New Dellin 110070

RPS - Sanction Letter

File No. 8-132/FDC/RPS/POLICY-1/2021-22

The Drawing and Disbursing Officer All India Council for Technical Education Nelson Mandela Marg. Vasant Kunj, New Delhi 110070,

Release of a sum of Rs. 539582/~ being the 1st installment of the total grant of Rs. 616666/- for conduct of Project Sub under Research Promotion Scheme (RPS) during the financial year 2021-22

With reference to the proposal submitted by the institute, this is to convey the sanction of the Council for payment of Rs. 539582/ (Rupees Five Lakh Thirty Nine Thousand Five Hundred Eighty Two Only) as 1 installment out of a total approved grant in aid of Rs.616666/- for conduct of a Project under the Research Promotion Scheme (RPS), as per details given below:

1.	Name and address of the Beneficiary Institution (University / College / Institution)		Registrar / Director / Principal, BHARAT INSTITUTE OF FECHNOLOGY, MANGALPALLY VILLAGE, ISBAHIMPATMAM MANDAL -501-510, TELANGANA
H.	Principal investigator's Name & Dept./Course	:	Dr. SRINIVAS NIMMAGADDA (PHARMACY)
111.	Co-Principal Investigator's Name & Dept.	:	SAMPURNA CHENGALVALA (PHARMACEUTICS)
IV.	Grant in aid Sanctioned		Rs. 616666/- (Rs. 462499/- (or non-recurring and Rs. 154367/- for recurring expenditure)
٧.	Amount to be Released during the year 2021-22 (as 1 st installment)	;	Rs. 539582/- (Rs. 462499/ Full amount of non-recurring & Rs. 77082/ recurring i.e. 50 % of total sanctioned recurring grant)
VI.	Project Duration	:	3 Years
VII.	Title of the Project		Targeted Drug Delivery in the Treatment of Diseases of Heart and Vasculature Using Sterically Stabilized, Long Circulating, Stealth Liposomes and their Combination with Depot Polymeric Scaledon

I. Release of funds:

- 1. The amount of the grant shall be drawn by the Drawing and Disbursing Officer (DDO). All India Council for 14:cha-c6 Education, New Delhi on the Grants-in-aid bill and shall be disbursed to and credited to the account of BHARAT INSTRUCT OF TECHNOLOGY, MANGALPALLY VILLAGE, IBRAHIMPATNAM MANDAL 501510, TELANGANA TOROUGH PEMS
- 2. The sanctioned grant-in aid is debitable to the Major Head "601.12.a (RPS Plan)" Gen. and is valid for payment during the financial year 2021-22.
- The sanction issues in exercise of the powers delegated to the Council. It is also certified that grant in aid is bring reteased in conformity with the rules and principles of the Scheme.
- 4. The grant in-aid is being released in conformity with the Terms & Conditions as well as norms of the scheme as already communicated and also being communicated in this letter.

II. Maintenance of account by the Institute/PI:

- 1. Funds covered by this grant shall be kept separately and would not be mixed up with other funds so as to know the amount of interest accrued on the grant.
- The grant is intended to cover items of expenditure/equipment approved by AICTE.
- 3. Acknowledgement of receipt of grant and letter of acceptance of terms and conditions is to be su

Director (Faculty Development Cell), AICTE, Nelson Mandela Marg, Vasant Kunj, New Delbert Methods (V), Drahmpatnam (M), Bharagan. Mangalpally (V), Ibrahimpatham (M),

Scanned with OKEN Scanner

- 4. The accounts of the grantee will be opened for test check by the Council or Comptroller & Auditor General of India or by any officer designated by thom
- 5. The Principal and PL of the institute are requested to verify the correctness of the undermentioned bank account/R1GS/PFMS details submitted to the institute are requested to verify the correctness of the undermentioned bank account/RTGS/PFMS details submitted by them alongwith the Proposal, in which the grant is being released. In case of any omission, the same should be reported to AICTE immediately along with refund of entire grant

	Y			and an in the second	Or enduce in	r at the	
Institute	Bank	Bank	Bank Branch Add				17-22-17
Pan No.	Name	Branch	Dank Granch Add	Account	Account	Account	IFSC Code
AAATC25	STATE			Holder Name	Type	Number	
571	BANK OF	BONGLOOR	H. NO. 2-84, GANGANAGAR	8.1.1	Saving	62101095523	SBIN0021069
			COLONY, BONGLOOR VILLAGE,	COLLEGE		62101077.75	
	INDIA		IBRAHIMPATNAM MANDAL, R.P.	PRINCIPAL	Account		
			THE THE TOTAL WINDS A P	GLM BVI			1
		1	DISTRICT, TELANGANA 501510	ACCOUNT			

- 6. The grantee Institution shall observe all financial norms and guidelines as prescribed by the AICTE/Government of India from time to time. Grantee institution must follow GFR guidelines in procuring the sanctioned items and maintain an audited record of assets acquired wholly or substantially out of the grant-in-aid and a register for assets shall be maintained by the Institute in the prescribed form i.e. GFR 19.
- Interest accrued on the sanctioned grant-in-aid will be reported and refunded to AICTE and not adjusted against the subsequent installment.

III. General Instructions.

- 1. It should be ensured that no RPS project in favour of the same P.I. has been sanctioned during the last 03 years before utilizing this amount and the matter be brought to the notice of this Council immediately in case a faculty is sanctioned multiple RPS Projects.
- The duration of Project is 03 years and the date of release of the grant by AICTE shall be taken as the date of commencement of the project. The Registrar/Director/Principal shall intimate about the receipt of the grant to AICTE. Any Expenditure, incurred prior to issuance of this Sanction Order, would not allowed to be adjusted in the grant and if the University/Institution do not take-up the project work within 6 months of the receipt of the grant, approval shall ipso focto lapse and the Institute has to necessarily refund the entire grant to AICTE along with interest within a month. In case the grant is not refunded within said duration 18% interest will be levied on it. The grant has to be refunded to MCTE, through RTGS as per details given below:

Account Number	55113199952
Name of the Account Holder	Member Secretary, AICTE, New Delhi
Bank Name	State Bank of India
Branch Name	Shashtri Bhawan, New Delhi
IFSC Code	SBIN0050203

- 3. The Institute may constitute a Project Monitoring Committee (PMC). The composition of the PMC shall be as under:
 - Principal/Director of the institution (Chairperson)
 - Two HODs from institute (Members) 11.
 - In case of private institute one subject expert from government institute, not below the rank of Associate Professor (Member)
 - Coordinator of the project (Member Secretary)
- 4. The grant shall be utilized strictly for the purpose as specified in the sanction letter. Re-appropriation of funds from one Head to another is strictly not permitted viz. Recurring and non-recurring Heads. Further, the equipment(s)/item(s) purchased should be as per the specifications and individual item-wise costs sanctioned by AICTE, and not taking the total grant sanctioned as one entity. Item wise purchase cost shall be matched with the sanctioned cost, and the cost of item purchased below the sanction cost shall be restricted as actual cost. If the item purchase cost is higher than its sanctioned cost, the cost shall be restricted to the sanctioned cost and the additional amount shall be met by the institute from its own
- 5. Similarly, the recurring grant can be used for the items (non-recurring) sanctioned by the AICTE. No money be used for going abroad to attend Conference / seminars. However, for presenting a Paper in a Seminar / Conference within the country, the travel expenses may be met from the recurring grant.

Contd...3/-

Mangalpally (V), Ibrahimpatnam (iv.), Bharat Institute R.A. Dist - 501 510. Telangans.



- 6. No request for additional grant over and above the sanctioned grant shall be considered by the AICTE. The additional amount, if any, expended howard the considered by the AICTE. The additional amount, if any, expended beyond the sanctioned grant shall be considered by some resources.
- The institute/University shall not charge any overheads on this Project and will provide all the administrative support and timely release of grant to BL(s). timely release of grant to PI for completion of the Project.
- The grantee shall utilize grants only on approved items as per list of equipment attached. However, if the grantee wishes to recast the Project approved items as per list of equipment attached. However, if the grantee wishes to recast the Project, approval of Council must be obtained for the revised item of expenditure and they will maintain proper accounts of the expenditure as a second accounts of the expenditure as per the norms/procedures of AICTE/Government of India. The revised proposal should be within the total grant and increase and incr within the total grant sanctioned and duly supported with reasons and recommendations of the Project Monitoring Committee (PMC).
- 9. The assets acquired wholly or substantially out of All India Council for Technical Education's grant shall not be disposed or encumbered or utilized for the purpose other than those for which the Grant was given where the purpose other than those for which the Grant was given where the purpose other than those for which the Grant was given where the purpose other than those for which the Grant was given where the purpose other than those for which the Grant was given where the purpose of India Council for Technical Education.
- 10 Each project sanctioned by AICTE is assigned a specific Reference Number, which is given on pre-page. All correspondence address to AICTE regarding the project must quote this number alongwith year of sanction of the project, otherwise correspondence may not be entertained
- 11. The grantee shall follow the terms and conditions of Research Promotion Scheme (RPS) as laid down by the Council time to time.

IV. Submission of documents by the institute/PI to AICTE:

(1

- A. Documents to be submitted within one month of completion of each financial year:
 - Annual Progress Report, indicating therein the number of patents, publications or any other achievement.
 - Utilization Certificate, Audited Utilization Certificate, Receipt & Payments, Statement of Expenditure. ii
 - Audited record of assets acquired wholly or substantially out of the grant-in aid and a register for assets in the iii. prescribed form i.e. GFR 19.
 - Separate Bills/vouchers related to Non-recurring and recurring expenditures duly signed & stamped by the P. & Head of the institution.
 - Stock entry register duly verified by the Store-in charge and PI & counter signed by Head of institution.

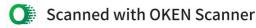
B. Documents to be submitted within two month of completion of the Project:

- The consolidated Utilization Certificate (UC) and Receipt & Payment Account for the Project duration, duly audited.
- Consolidated audited statement of expenditure, to the effect that the grant has been utilized for the purpose for which it has been sanctioned. It should contain the head wise break up of expenditure made from the grant-in aid presided by the Council.
- Project Completion Report duly signed & stamped by the PL& Head of the institution and Project Evaluation Committee (PEC) Members.
- Principal Investigator/institute to submit the Feed Back Form in AICTE format. iv
- The prescribed formats for submission of necessary mandatory documents and Terms & Conditions may please be downloaded from www.aicte-india.org/schemes/research-innovations-development-schemes.

Note: Any deviation from the above said time schedule will cause serious action against the institute.

Contd 4/

RPMINCIPAL Bharat Institute of Technology Mangaipally (V), Ibrahimpatnam (M) R.A. Dist - 501 510. Telengar.



V. Approved List of Items under Non-recurring grant.

A.	Approved Items (As per proposal) Non-recurring	No. of Units	Amount recommended (in Rs.)
i)	Lyophilizer		
ii)	Probe Sonicator	1	
iii)	Solid Phase Extraction (SPE) Instrument	1,	Rs. 462499/-
В.	Recurring i.e. 50% of total approved recurring grant) for Contingencies & Consumables only	1	Rs. 77083/
	Grand Total (A) + (B)	-	Rs. 539582/

Copy forwarded for information and necessary action to

1. REGISTRAR / DIRECTOR / PRINCIPAL,

BHARAT INSTITUTE OF TECHNOLOGY, MANGALPALLY VILLAGE, IBRAHIMPATNAM MANDAL -501510, TELANGANA

2. NAME OF PRINCIPAL INVESTIGATOR,

Dr. SRINIVAS NIMMAGADDA, (PHARMACY) BHARAT INSTITUTE OF TECHNOLOGY, MANGALPALLY VILLAGE, IBRAHIMPATNAM MANDAL -501510, TELANGANA

- 3. OFFICE OF DIRECTOR GENERAL OF AUDIT GENERAL REVENUES, AGCR BUILDING I.P. ESTATE, NEW DELHI-110002.
- 4. GUARD FILE

(Col. B. Venkat) Director (FDC)

Sharat Institute the change (M).
Mengelpelly (V), Ibrahimparnam (R).
Mengelpelly (V), 570. Telengana.
A.R. Dist - 507 570.

"One Day Workshop on Recent Trends in Clinical Data Management" Organized by



Bharat Institute of Technology
Mangalpally, Ranga Reddy, Telangana
Approved by PCI, AICTE and Affiliated to JNTU-H
In Association with



Telangana Academy of Sciences Tarnaka, Hyderabad, Telangana- 500017

Warch 26" 2022

Welcome address	0 30 AM 0 40 484		
Transcent and described for	-+	Principal	Г
Anaugural address by Chief Patron & Patron	9.40 AM- 9.50 AM	Shri. Ch. Venugopal reddy, Chairman,	
		Bharat institute of Technology	
Introduction of speaker		8	_
	9.50 AM - 10.00AM		
	10.00138		
Morning Session	10.00AM TO 12.15 PM		
Handed over to guest speaker			
Concluding remarks for morning session	12.15 AM To 12.30P M		
(discussion)			
	Lunch (12.30-1.30 PM)		
Afternoon session for practical workshop program	1.30 PM To 2.40P M		
Evaluation Test	2.40 To 3.10 PM		
Prize Distribution	3.30 To 3.45 PM		
Vote of thanks	3.45 To 4 PM		
CONVENOR: DR BHIMA SRIDEVI		CO-CONVENOR DRARGEA BEGUM SK Department of Pharmaceutical Chemistry	
Department of Fuarmaceutical Chemistry		Rharat Incitinta of Technology	
Email. ID:sridevibhima@bitpharmacy.org		Email, ID: arifabegum@bitpharmacv.org	



To

BIJERAT INSTITUTE OF TECHNOLOGY

(Approved by AlCTI & PCI, New Delbi and Affiliated to JNTU, Hyderabad) CAPPROVED BY AICTE & PCI, New Delin and Allinated to MATINGER Band)
Sponsored by a CHINTA REDDY MADHUSUDHAN REDDY EDUCATIONAL SOCIETY

Attended Mating Reddy Disider For Services Mangalpally (Village), Ibrahlmpatnam (Mandal), Ranga Reddy District - 501 510, Ph : 08414-252265, Fax : 0841-1-252645, E-mall : bltpharm@yahoo.com

Rof.:

9" April 202; Hyderaba

The Regional Coordinator,

Rangareddy Dist. Regional Centre,

Telangana Academy of Sciences,

Hyderabad.

Subject: Regarding Approval of financial assistance for expenses incurred for organizing the workshop.

1 Dr.Bhima Sridevi, working as Asst. Professor at Bharat Institute of Technolog. Ibrahimpatnam. It is our immense pleasure that our college has been grante sponsorship for the conduction of Workshop from TELANGANA ACADEMY O SCIENCES. As per the discussions, Bharat Institute of Technology in Associatio with Telangana Academy of Sciences, Hyderabad has organized One da Workshop on Recent Trends in Clinical Data Management dated on March 25tl 2022. Expenses incurred on workshop were done towards: 1. Guest Speakers honorarium-10,000/-

- 2. Banner, Certificates expenditure at Radha Hitech print solutions- 1740/-3. Mementos for speakers and winners-500/-
- 4. Photos and documentation-500/-
- 5. Stationery purchases-1930/-
- 6. Publicity 500/-

Please note all the expenditure along with supporting documents was submitted. I request you sir please transfer the amount of Rs.15,000/- to the college bank account. Account no: 62101095523 IfS code: SBIN0021069.

Thanking you Sir

Yours Sincerel

Dr.Bhima Srider



Scanned with OKFN Scanne







Appeared TAICIE & FUL New Build and Allianed to MIL. Reducated) Sponsored 5: CHEVEL SEDOT MADHUSUDHAN REDDY EDUCATIONAL SOCIETY
MEDICAD AND ADDRESS SEDOT MADHUSUDHAN REDDY EDUCATIONAL SOCIETY Mangalp ally (Vallage), Ibrahimpanam (Mandal), Ranga Reddy District - 381 SM. Ph : 05414-052285, Fex : 05414-252545, E-mail : blipharm@yaboo.com

Utilization certificate

This is to certify that Bharat Institute of Technology in Association with Telangana Academy of Sciences, Hyderabad organized "One day Workshop on Recent Trends in Clinical Data Management" as per the assurance of discussions financial assistance from TAS confirming with an email of cosponsor ship dated 15th February 2022. Assured amount has been utilized for the conducting of the event on March 25th 2022, expenditure incurred in organizing the program with criginal bills has been ausched for your kind reference and perusal.

Date:-



Signature of the Head of the Institution Date:-

> PRINCIPAL Bharat Institute of Technology Mangalpally (V), Ibrahimpatnam (M) R.R. Dist. Pin: 501510

Grants applied & not yet released:

S.no	Name of the research project/Endowment	Name of the	Department of	Applied	Name of	Status
		investigator/Co-	Principal	year	the funding	
		investigator	Investigator		agency	
1	Synthesis and development of Novel, Stable QD's with	Dr Anuvrat Sharma	Pharmaceutics	Applied	BIRAC	Applied & not yet
	suitable device for Pharmaceuticals, Healthcare and					released
	Biotech Industry applications					
2	Workshop on harmonization of Curriculum industry	Dr Arifa Begum SK	Pharmaceutics	2023	PCI	Applied & not yet
	academic meet					released
3	One day national seminar on Zebra-fish: A super-fast	Dr A V Badarinath	Pharmacology	2020	ICMR	Applied & not yet
	and precise animal model for A-to-Z human diseases	and Dr S Gurunath				released
4	Development and standardization of Broad spectrum	Dr A V Badarinath	Pharmaceutics	2019	Ministry of	Applied & not yet
	herbo-mineral nutrient tablets for universal cancer	and Dr N			AYUSH	released
	prevention	Harishankar				
5	Pre-clinical anti-diabetic studies of polyherbal	Dr Mrinmay Das	Pharmaceutics	2019	-	Applied & not yet
	formulation on streptozotocin induced diabetic rats					released
6	Intranasal in-situ gel nanoparticles of anticancer drugs	Dr Y Phalguna	Pharmaceutics	2019	-	Applied & not yet
	for Brain cancer					released
7	Development of instrument tobacco smoke induced lung	Dr A V Badarinath	Pharmaceutics	2019	-	Applied & not yet
	cancer chamber as effective natural animal model					released

FACE GHIST

Towns of the State	
The second of the second secon	
The state of the s	region a model care and brown includes
Tarabian Carabian Car	
Toronton	
The same of the sa	
Themple Sies	
The Tanger	
artistic Spiloris	
ne of frence	
ne to sough membring guidance through an Associate Parleaf?	
pinteton Type	
eure icentific Pr Lt	
E Pather	
P (TOMESS): PAL PARENTA	
the Continator	
INTER DISSING	
se to societ though another BG partners in the current salt?	
the the varie proposal	
ne you applied for BIG in earlier rounds?	
ou fording feodination	
F.毛笼 Latin	

PARTICULARS OF THE APPLICANT

Contact Details		Address2:	
Address1:	HNo_7-152,	Addis	
	Mye Villas,	i i	
	Opp FCI Godown road,		
	Mallapu	City/Town:	Hyderabad
Street/Village:	Hyderabad	Country:	India
State:	TELANGANA	Landline:	91-863-9107187
Pincode/Zip:	500076	Website:	https://www.inaturas.com/
Mobile:	000070	VVEDORES	COM
Fax:		1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -	
	Of The Incubatee		
Date of incorporat	tion of company		
2018			
Number of Years s	since Registration		
5			
Registration Certif	icate Of Company		
View file			Mark Charles and C
PAN Card			
View file			
Memorandum of As	ssociation of company		
No File Uploaded			
Article of Association	on of company		
No File Uploaded			
Audited Financial St	tatements (Annual Report and Bala	nce Sheet)	
iew file			
re the Shares Of th	e Company held to the Extent Of 5	1% By	
ndian Citizens (incl			
es			
nareholding Pattern	of the Company Indicating Name	And	
ddress Of Foreign	Shareholders, Overseas Corporate	Bodies And	
hares Held By NRIs			
ew file			A second
mber of shareholde	ers		
ssports of Sharehol	ders		100 / 100 A T. AF .
w file			
	sidiary to a Parent Company?		
na Company a aub	oranary to a reserve company.		
	g 20% or more shares of the applic	cant company, a co-promo	iter of another company/ies)
•	y 20% of more shares of the applic		or unother company(les)
ther LLP?			
		n on promotor of	
y partner of the LL	P, a co-partner of another LLP(s)/	a co-promoter of another of	company(ies)?
ou have a Function	al Laboratory of your own ?		

Shareholding Pattern Of The Company

.No	Category of shareholder	Number of shareholders	To	otal number of shares	Total share holding as
harehold	ding of promoter & Promoter Group	A STATE OF THE STATE OF		er silares	% of total number of
	Indian	,			shares
a)	Foreign:- NRI	2		2	
)	Foreign:- Foreign individual	0	-	0	
	Total	0	_	0	
ublic Sh	areholding		2		2
,	Indian				1
.a)	Foreign:- NRI		0		0
)	Foreign:- Foreign individual		0		0
	Total		0		0
100	Grand Total		0		0
	Crand Total		2		2

Project Coordinate	ors Details	Organization	Innati
Title	Dr	Last Name	Innatura Scientifico Male
First Name	Nandan	Gender	Male
Designation	Chief Scientific Officer	Landline	
Email	innaturasolutions@gmail.com	Resume	+91-040-8639107 View file
Mobile	+91-9966161722		MB W
Passport Copy	No File Uploaded	The state of the s	

Team Members		Organization	Innatura
Title	Dr	Last Name	Innatura Scientific
First Name	Srikanth	Gender	Male
Designation	Scientific Officer	Landline	
Email	gatadi.srikanth8@gmail.com	Resume	+91-040-8639107 View file
Mobile	+91-7013738653		1 A LEW LITE
ssociated with any o	ther BIG project (ongoing/completed)	No	

Team Members			To
Title	Dr	Organization	Bharat Institute of Te
First Name	Anuvrat	Last Name	Sharma
Designation	Director	Gender	Male
mail	director@bitpharmacy.org	Landline	+91-040-863910718
lobile	+91-7993640745	Resume	View file
ssociated with any ot	her BIG project (ongoing/completed)	No	

Title	Dr	Organization	Innatura Scientific Pvt
First Name	VENKATA RAMESH	Last Name	GUBBALA
Designation	Scientific Advisor	Gender	Male
Affiliation	СВІТ	Area(s) of Expertise	Nanotechnology
mail	gubbala.v.ramesh@gmail.com	Landline	+91-040-8639107187
lobile	91-8076909068	Resume	View file

PROPOSAL SUMMARY

pposal Summary [Provide a brief one paragraph overview of the proposal, i.e. the idea and the problem it may solve and

proposed project focuses on the synthesis and development of novel and stable Quantum Dots QDs for various applications in proposed projections and biotech businesses. QDs are a type of nanomaterial that have unique optical and electronic pharmaceurics.

Parties, making them useful in a range of applications such as medical imaging, drug product tracking, product development, drug biocompatibility, making them suitable for use in above mentioned industries. This project also aims to develop a suitable device biocompany be utilized using these novel QDs in real-world applications. The ultimate goal of the project is to contribute to the ancement of these industries by providing new, innovative solutions based on QD technology. This project is expected to have a ancement of the development of new technologies and products for the pharmaceutical, healthcare, and biotech industries

ase upload a concept note explaining the technology with necessary figures and diagrams :

File Uploaded

Briefly state the Objectives and Proposed Approach

escribe how the proposed project addresses the problem. Clarify the current status of the innovation.] ne description should cover the following points:

Strategy and/or methodology of work.

Scope and boundaries of the work, including any issues that will not be covered.

Data analysis (sample size,data collection)

e objectives of the proposed project are as follows:

To Design, synthesize and develop novel and stable quantum dots QDs with improved stability and bio compatibility.

To develop suitable device that can effectively utilize these novel QDs in real-world applications.

To contribute to the advancement of the Pharmaceutical, Healthcare, and Biotech industries by providing new, innovative solutions ased on QD technology.

he proposed approach to achieve these objectives is as follows:

- Strategy and methodology of work: The project will be approached using a multi-disciplinary view, combining expertise in material cience, chemistry, and biomedical engineering. A combination of synthetic and characterization techniques will be used to ynthesize the QDs, and the biocompatibility and stability of the QDs will be evaluated. The development of suitable device will wolve the integration of these novel QDs into existing technologies or the development of new technologies.
- 2. Scope and boundaries: The scope of the project will focus on the synthesis and development of novel and stable QDs for use in he Pharmaceutical, Healthcare, and Biotech industries. The project will not cover the commercialization of the developed products.
- 3. Data analysis: The sample size for the study will be determined based on statistical considerations and the results will be analyzed sing appropriate statistical tools. Data collection will involve the use of various characterization techniques, including optical spectroscopy, electron microscopy, XRD and in vitro & in vivo studies to evaluate the biocompatibility and stability of the QDs. The data collected will be used to validate the suitability of the developed QDs and devices in real-world applications.

3. Novelty

[Explain how your idea is innovative and how it is different from the existing products in the markets or current state-of-the-art. Tabular representation of the difference between your idea and the other products in market or competitive product which are under development will be appreciated. Concrete market data is encouraged.]

he proposed project aims to address a key challenge in the development of quantum dots for use in the Pharmaceutical, ne proposed industries, which is the stability and biocompatibility of the QDs. The proposed project is innovative because the and develop novel and stable quantum dots with improved biocompatibility and stability and stabilit the synthesize and develop novel and stable quantum dots with improved biocompatibility and stability, which is a significant to synthesize to cover the current state-of-the-art.\r\n2. Currently, several ODs available in the market suffer. ns to symmetric over the current state-of-the-art.\r\n2. Currently, several QDs available in the market suffer from a lack of stability and over the current state of the pharmaceutical, healthcare, and biotech industries. The countries in the pharmaceutical, healthcare, and biotech industries. The countries is a significant to the pharmaceutical bealthcare, and biotech industries. The countries is a significant to the pharmaceutical bealthcare, and biotech industries. roverners.

Notice limits their use in the pharmaceutical, healthcare, and biotech industries. The novel QDs developed in this improved stability and biocompatibility, making them more suitable for use is those in the control of th onpauling improved stability and biocompatibility, making them more suitable for use in these industries. Further, the lock will have a suitable devices to utilize these novel quantum date will be a sleet and the suitable devices. elopment of suitable devices to utilize these novel quantum dots will be a significant innovation in the field, as it will enable the elopment of these quantum dots in real-world applications.\r\n3. Table: Comparison of proposed project and existing of these quantum dots in real-world applications.\r\n3. Table: Comparison of proposed project and existing of the market\r\n4. Feature 5. Proposed Project 6. Existing Products\r\n2. Stability 6. In parket\r\n4. politive uniform the market\r\n4. Feature 5. Proposed Project 6. Existing Products\r\n7. Stability 8. Improved 9. Limited\r\n10. ducts in the compatibility 11. Improved 12. Limited\r\n13. Device Integration 14. Suitable devices developed 15. Limited integration with compatibility.

Sting devicestrin16. The proposed project is innovative and offers several advantages over existing products in the market. The sting devices.

The and biocompatibility of the novel quantum dots, along with the development of suitable devices, will make them have detailed in the pharmaceutical, healthcare, and biotech industries. The account of suitable devices, will make them restractive for use in the pharmaceutical, healthcare, and biotech industries. The concrete market data will be evaluated and re street.

Alyzed once the project is completed and the results are available..No File Uploaded

hat is the potential societal and market Impact? Provide details of the problem you propose to solve.] e proposed project has the potential to have a significant impact on the Pharmaceutical, Healthcare and Biotech industries. By a propused in the sizing and developing Novel and Stable QDs with improved biocompatibility and stability, the project aims to address a key the sizing and developing Novel and Stable QDs for use in these industries. The improved biocompatibility and stability, the project aims to address a key allenge in the development of QDs for use in these industries. The improved stability and biocompatibility of the novel quantum s, along with the development of suitable devices to utilize them, will enable the effective utilization of quantum dots in real-world

the pharmaceutical industry, QDs have the potential to revolutionize medical imaging and drug delivery. The improved stability and compatibility of the novel QDs will make them more suitable for use in these applications, providing more effective and safer

the healthcare industry, quantum dots have the potential to be used in biosensors and diagnostic tools, providing faster and more atments for patients. curate diagnoses. The improved stability and biocompatibility of the novel quantum dots, along with the development of suitable vices, will make these tools more effective and accessible.

the biotech industry, QDs have the potential to be used in a range of applications, including gene expression analysis and protein peling. The improved stability and biocompatibility of the Novel QDs, along with the development of suitable devices, will make

summary, the proposed project has the potential to have a significant impact on the pharmaceutical, healthcare, and biotech ese applications more effective and efficient. dustries by providing new, innovative solutions based on quantum dot technology. The improved stability and biocompatibility of the vel quantum dots, along with the development of suitable devices, will enable the effective utilization of quantum dots in real-world plications in these industries.

Challenges or risk factors associated with the project

What are the challenges and risk factors that you envision which may affect this project?]

Vhat are the critical success factors/potential barriers?

There are several challenges and risk factors associated with the proposed project: There are several challenges and risk factors associated with the proposed synthesis and development of stable and biocompatible quantum dots: The development of stable and biocompatible quantum dots: Synthesis and development methods may be that the proposed synthesis and development methods may be a set that the proposed synthesis and development methods may be a set that the proposed synthesis and development methods may be a set that the proposed synthesis and development methods may be a set that the proposed synthesis and development methods may be a set that the proposed synthesis and development methods may be a set that the proposed synthesis and development methods may be a set that the proposed synthesis and development methods may be a set that the proposed synthesis and development methods may be a set that the proposed synthesis and development methods may be a set that the proposed synthesis and development methods may be a set that the proposed synthesis and development methods may be a set that the proposed synthesis and development methods may be a set that the proposed synthesis and development methods may be a set that the proposed synthesis and development methods may be a set that the proposed synthesis are set that the proposed synthesis are the set that the proposed synthesis are the set that the proposed synthesis are the set that the proposed synthesis are set that the proposed synthesis are the set that the set t Synthesis and development of stable and blocompatible quantum document methods may not be a complex and challenging task. There is a risk that the proposed synthesis and development methods may not be a complex and challenging task. There is a risk that the proposed synthesis and development methods may not be a complex and challenging task. There is a risk that the proposed synthesis and development methods may not be a complex and challenging task. Synthesis and development or statile and the proposed synthesis and development or statile and the proposed synthesis and challenging task. There is a risk that the proposed synthesis in the pharmaceutical, healthcare, and the plan of Commercialization stability and biocompatibility of the quantum dots, which would limit their use in the pharmaceutical, healthcare, and the plan of Commercialization stability and biocompatibility of the quantum dots, which would limit their use in the pharmaceutical, healthcare, and the plan of Commercialization stability and biocompatibility of the quantum dots, which would limit their use in the pharmaceutical, healthcare, and the pharmaceutical is also a second to the pharmaceutical in the pharmaceutica industries.

Integration with devices: The development of sultable devices to utilize the novel quantum dots is also a complex to utilize the novel quantum dots is also a com do you envision to be the key r ng, venture financing)? What is Integration with devices: The development of suitable devices and not be suitable for use in real-world applications, risk that the proposed devices may not function as intended or may not be suitable for use in real-world applications. nercialization plan should indicate risk that the proposed devices may not function as intended of this risk that the proposed devices may not function as intended of this risk that the proposed devices may not function as intended of this risk that the proposed devices may not function as intended of this risk that the proposed devices may not function as intended of this risk that the proposed devices may not function as intended of this risk that the proposed devices may not function as intended of this risk that the proposed devices may not function as intended of this risk that the proposed devices may not function as intended of this risk that the proposed devices may not function as intended of this risk that the proposed devices may not function as intended of this risk that the proposed devices may not function as intended of this risk that the proposed devices may not function as intended of this risk that the proposed devices may not function as intended of this risk that the proposed devices may not function as intended of this risk that the proposed devices may not function as intended of this risk that the proposed devices may not function as intended of this risk that the proposed devices may not function as intended of this risk that the proposed devices may not function as intended of this risk that the proposed devices may not function as intended of this risk that the proposed devices may not function as intended of this risk that the proposed devices may not function as intended of this risk that the proposed devices may not function as intended of this risk that the proposed devices may not function as intended of this risk that the proposed devices may not function as intended of this risk that the proposed devices may not function as intended of the risk that the proposed devices may not function as intended of the risk that the proposed devices may not function as intended of the risk that the proposed devices may not function as intended of the risk that the proposed devices may not function as intended of the risk that t rket entry strategy. Biocompatibility testing: The biocompatibility of the novel quantum dots.

Biocompatibility testing: The biocompatibility of the novel quantum dots. nelines and Milestones. may not be favorable, which would limit the use of the novel quantum dots. ta analysis (sample size,data prehensive business/commen may not be favorable, which would limit the use of the novel quantum dots and associated devices to be used in the pharmaceutical Regulatory approval: In order for the novel quantum dots and associated devices to be used in the pharmaceutical Regulatory approval process. There is a risk that the Novel On Regulatory approval: In order for the novel quantum dots and association of the novel quantum dots and association and analysis: C biotech industries, they must undergo a required regulatory approval process. There is a risk that the Novel QDs and analysis: C biotech industries, they must undergo a required regulatory approval process. There is a risk that the Novel QDs and analysis: C which will limit their further development. devices may need some additional data, which will limit their further development. ants pharmaceutical and bio devices may need some additional data, which will limit their further.

devices may need some additional data, which will limit their further.

devices may need some additional data, which will limit their further.

and provided their further is a risk provided to the provided their further.

Competition: The development of quantum dots and associated devices is a rapidly evolving field, and there is a risk provided their Competition: The development of quantum dots and associated as a result of the proposition of the propositio ers, universities, or research The critical success factors for the proposed project include: The critical success factors for the proposed project motion.

The critical success factors for the proposed project motion.

Successful synthesis and development of stable and biocompatible quantum dots: The success of the proposed project universities, the ability to synthesize and develop stable and biocompatible quantum dots that meet the desired specifications. ons and provide a compe the ability to synthesize and develop stable and blocompassion quantum develop stable and proposed project also depends on the ability to develop stable and proposed project also depends on the ability to develop stable and proposed project also depends on the ability to develop stable and proposed project also depends on the ability to develop stable and proposed project also depends on the ability to develop stable and proposed project also depends on the ability to develop stable and proposed project also depends on the ability to develop stable and proposed project also depends on the ability to develop stable and proposed project also depends on the ability to develop stable and proposed project also depends on the ability to develop stable and proposed project also depends on the ability to develop stable and project also depends on the ability to develop stable and proposed project also depends on the ability to develop stable and proposed project also depends on the ability to develop stable and project also depends on the ability to develop stable and project also depends on the ability to develop stable and project also depends on the ability to develop stable and project also depends on the ability to develop stable and project also depends on the ability to develop stable and project also depends on the ability to develop stable and project also depends on the ability to develop stable and project also depends on the ability to develop stable and project also depends on the ability to develop stable and the ability to develop and the ability and the ability to develop and the narketing strategies. Thi usiness and financial pl Favorable biocompatibility testing results: The biocompatibility of the Novel QDs must be thoroughly tested, and favorable nercialization efforts ar dustrial collaboration: critical for the success of the proposed project. critical for the success of the proposed project.

Regulatory approval: The regulatory approval process is a critical success factor for the proposed project, as the Novel Control of the technol nercialize the technol xit strategy: Develop associated devices data are limited. ions into a standalor 6. Has any preliminary work been carried out? Give status of work done ement. rall, the commercia If no, please provide the background details. QDs are a type of nanoscale material that have unique optical and electronic properties, making them useful for a range of ing the technology applications, including imaging and sensing. In recent years, there has been growing interest in developing quantum dols icial planning and stable and biocompatible for use in the pharmaceutical, healthcare, and biotech industries. The development of biocompatible and stable quantum dots requires a thorough understanding of the synthesis and charac ntellectual Prop oes the applica of these materials. This includes optimizing the size, shape, and composition of the quantum dots, as well as ensuring that nber, Patent Tit non-toxic and do not interfere with biological systems. proposed proje In addition, the integration of quantum dots with suitable devices is also a critical component of the development process. The component of the development process. The component of the development process. with required & includes developing devices that can effectively utilize the unique properties of quantum dots, such as their fluorescence and ist Of Patents specific applications in the pharmaceutical, healthcare, and biotech industries. Overall, the field of quantum dots and their potential applications in the pharmaceutical, healthcare, and biotech industries is hnotogies A active area of research and development, and there have been numerous advances in recent years. ease mentio 7. Please provide current and expected Technology Readiness Level (TRL) If there are **Current TRL** se inventio **TRL - 1** ormation c This project is yet to take off as per the plan mentioned above. **Expected TRL** TRL-4 Relevan The critical milestones would be updated as per the below mentioned details. 8. Proposed end-outcomes (Your BIG Project is expected to result in the following end-outcomes). A Product for customers An intellectual property right for licensing or sale

Hure Plan of Commercialization ture risk.

It do you envision to be the key next step to making impact with this innovation (e.g., sponsored research support, at do you envision)? What is the time frame? nsing, venture financing)? What is the time frame?]

No.

mmercialization plan should indicate :

Market entry strategy.

Timelines and Milestones.

Data analysis (sample size,data collection) Data analysis business/commercialization plan for the stable QD technology solutions would include the following steps: Scale up.

sting.

Market research and analysis: Conduct market research to determine the size and growth potential of the relevant industry harmaceutical and biotechnology, bioimaging, and supply chain management and to the relevant industry analysis. Market research and biotechnology, bioimaging, and supply chain management and to identify potential customers and gments pharmaceutical and biotechnology, bioimaging, and supply chain management and to identify potential customers and

product development and validation: Further develop and validate the technology solutions through collaboration with industry

Intellectual Property protection: Obtain patents and other forms of intellectual property protection to secure the technology irtners, universities, or research institutions.

dutions and pro
Go-to-market strategy: Develop a go-to-market strategy to commercialize the technology solutions, including pricing, distribution

Go-to-market strategy: This could involve licensing the technology to industry strategies. Jutions and provide a competitive advantage in the market. d marketing strategies. This could involve licensing the technology to industry players or launching a standalone product.

Business and financial planning: Develop a comprehensive business plan and financial model to ensure the viability of the

Business plan and to secure funding from investors or strategic partners. Industrial collaboration: Establish partnerships and collaborations with relevant industry players to jointly develop and

Exit strategy: Develop an exit strategy for incubation, which could involve selling the company or spinning off the technology ommercialize the technology solutions. blutions into a standalone entity. The exit strategy for industrial collaboration would depend on the needs of the partnership

greenient.

Diverall, the commercialization plan for the stable QD technology solutions would involve a systematic and comprehensive approach bring the technology to market, including market research, product development, IP protection, go-to-market strategy, business and

Does the applicant or the applicant company own any IP related to this project. If yes, give details.(Please mention Patent nancial planning and exit strategy.

The proposed project will enter in to IP related activities as and when it will achieve critical milestones. As a part of strategy, the IP

i. List Of Patents That Appear To Cover Any Part Of The Technology Of Interest Or Similar (And Possibly Overlapping)

Technologies And Thereby Restrict The Freedom-To-Operate In The Envisaged Area.

(Please mention Patent Number, Patent Title and Patent Assignee)

iii. If there are patents that are overlapping and may restrict FTO, does the applicant have the required license/s to practise these inventions for the purposes of the proposed project? Please provide license agreement details if any or provide

information of the proposed next steps to obtain said license/s.

NA

11. Relevant References.

tes with improved interface contacting vi	
1. Zhigao et al. Highly stable quantum dot light-emitting diodes with improved interface contacting via violet irradially.	
1. Zhigao et al. Highly stable quantum dot light-enimo Sci. 615 2023 156339 2. Bright and Stable Quantum Dot Light-Emitting Diodes. Adv. Mater. 34 2022 2106276. Sci. 615 2023 156339 2. Bright and Stable Quantum Dot Light-Emitting Diodes. Adv. Mater. 34 2022 2106276.	
Sci. 615 2023 156339 Sci. 615 2023 156339 2. Bright and Stable Quantum Dot Light-Emitting Diodes. Adv. Match 3. A.M. Smith, S. Dave, S. Nie, L. True, X. Gao, Multicolor quantum dots for molecular diagnostics of cancer, Expenses 3. A.M. Smith, S. Dave, S. Nie, L. True, X. Gao, Multicolor quantum dots for molecular diagnostics of cancer, Expenses 3. A.M. Smith, S. Dave, S. Nie, L. True, X. Gao, Multicolor quantum dots for molecular diagnostics of cancer, Expenses 3. A.M. Smith, S. Dave, S. Nie, L. True, X. Gao, Multicolor quantum dots for molecular diagnostics of cancer, Expenses 3. A.M. Smith, S. Dave, S. Nie, L. True, X. Gao, Multicolor quantum dots for molecular diagnostics of cancer, Expenses 3. A.M. Smith, S. Dave, S. Nie, L. True, X. Gao, Multicolor quantum dots for molecular diagnostics of cancer, Expenses 3. A.M. Smith, S. Dave, S. Nie, L. True, X. Gao, Multicolor quantum dots for molecular diagnostics of cancer, Expenses 4. A.M. Smith, S. Dave, S. Nie, L. True, X. Gao, Multicolor quantum dots for molecular diagnostics of cancer, Expenses 4. A.M. Smith, S. Dave, S. Nie, L. True, X. Gao, Multicolor quantum dots for molecular diagnostics of cancer, Expenses 4. A.M. Smith, S. Dave, S. Nie, L. True, X. Gao, Multicolor quantum dots for molecular diagnostics of cancer, Expenses 4. A.M. Smith, S. Dave, S. Nie, L. True, X. Gao, Multicolor quantum dots for molecular diagnostics of cancer, Expenses 4. A.M. Smith, S. Dave, S. Nie, L. True, X. Gao, Multicolor quantum dots for molecular diagnostics of cancer, Expenses 4. A.M. Smith, S. Sang, Fluorescent carbon dots as carrier diagnostics of cancer, Expenses 4. A.M. Smith, S. Sang, S. Sang, Fluorescent carbon dots as carrier diagnostics of cancer, Expenses diagnostics of	
2. Bright and Stable Quantum 22. S. Nie, L. True, X. Gao, Mullicolo.	element of suitable device the
13. A.M. Shilli, S. Sang, Fluoressent carbon dots	Ive3: Development of States Detailed dology/Experimental Design Detailed
Diagn. 6 2006 23 1-24 11 7 7hand, 1 1 2 11 2 2010 527-533.	10109y Line Tuorescopes
Diagn. 6 2006 231-244. Diagn. 6 2006 231-244. J. Diagn. 6 2006 231-244. J. Diagn. 6 2006 231-244. J. Diagn. 7. Ma, M. Che, B. Zhang, Y. Zhang, Y. Li, W. Zh	ate Strategies:
4.] Q. Duan, Y. Ma, M. Che, B. Zhang, T. Zhan	ate Strategies: ate device architecture will be studied to device architecture to the advancement
5. V.G. Reshma, P.V. Mohanan, Quantum dots. 517 5. V.G. Reshma, P.V. Mohanan, Quantum dots. 518 6. G.N. Vajubhai, S.K. Kailasa. Glutathione-ascorbic acid-functionalized molycotal samples, 287 2023 122041. 6. G.N. Vajubhai, S.K. Kailasa. Glutathione-ascorbic acid-functionalized molycotal samples, 287 2023 122041. 6. G.N. Vajubhai, S.K. Kailasa. Glutathione-ascorbic acid-functionalized molycotal samples, 287 2023 122041. 7. J.D. Schiffman, R.G. Balakrishna, Quantum dots as fluorescent probes: synthesis, surface chemistry, energy training to the control of the control	ne based on QD technology
sensor for the detection of isoniazid dieg sensor for the detection	dology/Experimental Design Detailed in dology/Experimental Design
mechanisms, and applications, Sens. Acta mechanisms, and applications, and applica	leinh ate strategies: cree and possible real life applications w
Linear with a label-free electron	ogh .
Acto 1011 2018 28-34. Grantionalized Introgers and and doped grants	LINE
9. M. Roushani, A. Valipour, M. Bahrami, The potentiality of the functional gonadotropin immunosensor, Nanocher GQDs-NS to stabilize the antibodies in the designing of human chorionic gonadotropin immunosensor, Nanocher	
GQDs-NS to stabilize the antibodies in the designing and a stabilized the s	atibility.
2019 20-26. 10. Y. Qian, J. Feng, H. Wang, D. Fan, N. Jiang, Q. Wei, H. Ju, Sandwich-type signal amplification for procalcitor	evnthesis and
10. Y. Qian, J. Feng, H. Wang, D. Fan, N. Jiang, Q. Wei, H. Ju, Sandard and Signal amplification for procalcitor based on dual suppression effect of PbS quantum dots/Co3O4 polyhedron as signal amplification for procalcitor	nin detailovel and Stability and bi
	with improved
Sens. Actuators B Chem. 300 2019 127001.	Activities Activities
Sens. Actuators B Chem. 300 2019 127001. 12. Please upload declaration document on ethical/legal/safety/regulatory issues involved, if any .	- Development of
No File Uploaded	of sultable valle
	lity indicating analytical
13. Presentation	-de
View file	Activities
14. Undertaking by the Principal Investigator with regards to the originality of proposal submitted	ECTIVE : Development
View file	Lement of suitable de
Any other information relevant to the project	effectively utilize these
	in real-world applicat
Please Upload the Relevant Document	Activities
<u>View file</u>	ECTIVE :To contrib
<u>View file</u>	vative solutions b
View file	
<u>view nie</u>	ontribute to the adv
	Pharmaceutical, Ho
OBJECTIVE AND TIMELINES	Pharmaceutical, Ho
OBJECTIVE AND TIMELINES PROPOSAL OBJECTIVES & WORK PLAN	Pharmaceutical, Householder by for the solutions by for the solutions by the solutions because by the solutions because by the solutions by th
OBJECTIVE AND TIMELINES PROPOSAL OBJECTIVES & WORK PLAN	Pharmaceutical, House ech industries by for a solutions by the solutions b
OBJECTIVE AND TIMELINES	Pharmaceutical, House ech industries by for a solutions by the solutions b
OBJECTIVE AND TIMELINES PROPOSAL OBJECTIVES & WORK PLAN Objective1: Design, synthesis and development of a Novel and Stable Quantum Dots QDs with improved s compatibility.	Pharmaceutical, House ech industries by for a solutions by the solutions b
OBJECTIVE AND TIMELINES PROPOSAL OBJECTIVES & WORK PLAN Objective1: Design, synthesis and development of a Novel and Stable Quantum Dots QDs with improved s compatibility. Methodology/Experimental Design Detailed Work Plan:	Pharmaceutical, House ech industries by for a solutions by the solutions b
OBJECTIVE AND TIMELINES PROPOSAL OBJECTIVES & WORK PLAN Objective1: Design, synthesis and development of a Novel and Stable Quantum Dots QDs with improved s compatibility. Methodology/Experimental Design Detailed Work Plan: The synthesis plan and development strategy will be shared as an when it is ready	Pharmaceutical, Hiech industries by provided invariative solutions by tability and big inclogy
OBJECTIVE AND TIMELINES PROPOSAL OBJECTIVES & WORK PLAN Objective1: Design, synthesis and development of a Novel and Stable Quantum Dots QDs with improved s compatibility. Methodology/Experimental Design Detailed Work Plan: The synthesis plan and development strategy will be shared as an when it is ready Alternate Strategies:	Pharmaceutical, He ech industries by I vative solutions by I tability and bio inology
OBJECTIVE AND TIMELINES PROPOSAL OBJECTIVES & WORK PLAN Objective1: Design, synthesis and development of a Novel and Stable Quantum Dots QDs with improved s compatibility. Methodology/Experimental Design Detailed Work Plan: The synthesis plan and development strategy will be shared as an when it is ready Alternate Strategies: Multiple synthesis strategies will be worked out parallelly	Pharmaceutical, Hiech industries by Invative solutions by Invative
OBJECTIVE AND TIMELINES PROPOSAL OBJECTIVES & WORK PLAN Objective1: Design, synthesis and development of a Novel and Stable Quantum Dots QDs with improved s compatibility. Methodology/Experimental Design Detailed Work Plan: The synthesis plan and development strategy will be shared as an when it is ready Alternate Strategies: Multiple synthesis strategies will be worked out parallelly Objective2: Development of suitable validated stability indicating analytical methods	Pharmaceutical, Hiech industries by I vative solutions but tability and bio inclogy 31. No Sign Des
OBJECTIVE AND TIMELINES PROPOSAL OBJECTIVES & WORK PLAN Objective1: Design, synthesis and development of a Novel and Stable Quantum Dots QDs with improved s compatibility. Methodology/Experimental Design Detailed Work Plan: The synthesis plan and development strategy will be shared as an when it is ready Alternate Strategies: Multiple synthesis strategies will be worked out parallelly Objective2: Development of suitable validated stability indicating analytical methods Methodology/Experimental Design Detailed Work Plan:	Pharmaceutical, How ech industries by provided invalided solutions by the
OBJECTIVE AND TIMELINES PROPOSAL OBJECTIVES & WORK PLAN Objective1: Design, synthesis and development of a Novel and Stable Quantum Dots QDs with improved s compatibility. Methodology/Experimental Design Detailed Work Plan: The synthesis plan and development strategy will be shared as an when it is ready Alternate Strategies: Multiple synthesis strategies will be worked out parallelly Objective2: Development of suitable validated stability indicating analytical methods Methodology/Experimental Design Detailed Work Plan: A Validated analytical method will be developed for various analytical techniques	Pharmaceutical, He ech industries by revative solutions by tability and bio inology 31. No 1 Sign Des 2 Que
OBJECTIVE AND TIMELINES PROPOSAL OBJECTIVES & WORK PLAN Objective1: Design, synthesis and development of a Novel and Stable Quantum Dots QDs with improved s compatibility. Methodology/Experimental Design Detailed Work Plan:	Pharmaceutical, He ech industries by revative solutions are reconstructed by revative solutions.

itable device to process the fluorescence patternof the novel QDs will be developed and validated

irrate Strategies:

Irrate device architecture will be studied

ective4: To contribute to the advancement of the Pharmaceutical, Healthcare, and Biotech Industries by providing new, innovative thodology/Experimental Design Detailed Work Plan:

rious applications of the Novel QDs in Pharmaceutical, Healthcare and Biotech Industries will be explored

ferent possible real life applications will be explored

ME LINES Activities	Month Of Start Of Activity			
- posign, synthesis and	development of Activity	Month Of End Of A - 11 -		
BJECTIVE :Design, synthesis and mpatibility.	development of a Novel and	Stable Quantum	Indicators Of Progress	
mpatibility.		antum Dots QD	s with improved stability and by	
sign, synthesis and development Novel and Stable Quantum Dots with improved stability and bio		The sy	The synthesis plan and development	
mpatibility.			strategy will be shared as an when it is ready	
Activities	Month Of Start Of Activity	Month Of E	· · · · · · · · · · · · · · · · · · ·	
SJECTIVE :Development of suita	ble validated stability indicate	Month Of End Of Activity	Indicators Of Progress	
velopment of suitable validated	indica	ing analytical methods		
bility indicating analytical	5	7	A Validated analytical method will be developed for various analytical	
ethods			techniques	
Activities	Month Of Start Of Activity	Month Of End Of Activity		
BJECTIVE : Development of suita	able device that can effective	ly utilize these novel QDs	in real-world applications.	
evelopment of suitable device that			A suitable device to process the	
n effectively utilize these novel	8	10	fluorescence patternof the nove	
Ds in real-world applications.			QDs will be developed and validate	
Activities	Month Of Start Of Activity	Month Of End Of Activity	Indicators Of Progress	
BJECTIVE :To contribute to the	advancement of the Pharma	ceutical, Healthcare, and B	liotech industries by providing new	
novative solutions based on QI				
contribute to the advancement o	f		Various applications of the Nov	
e Pharmaceutical, Healthcare, and	d		QDs in Pharmaceutical, Healthca	
iotech industries by providing new	N 4 4	16	and Biotech industries will	
novative solutions based on QD			explored	
	1	1		

QUANTIFIABLE MILESTONES

		Month Of End Of Activity(In Months)
SI. No	Milestone Name	
1	Signing of Contract	
	Design, synthesis and development of a Novel and Stable	4
2	Quantum Dots QDs with improved stability and bio	
	compatibility	10
	Development of suitable device that can effectively utilize	
3	these novel QDs in real-world applications.	

вир	GET DETAILS
Non Recurring Cost(Rs, In Lakhs) S.No 10.00	Other Heads(C)
Recurring Cost(Rs. In Lakhs) Human Resources(A) 14.88 Consumables(B) 20.00	ANCIAL DETAILS
OTHER FIN	ancial support for the present activity? Please ylvs.

To contribute to the advancement of the Pharmaceutical,	
athcare, and Biotech industries by providing new,	16
innovative solutions based on QD technology	
Submission Of Report	
Submiser	

etails Of Equipment Proposed To Be Acquired Through BIRAC's Grant

.No	Infrastructure/Equipment	Capacity		Quarte -	
1	Stability chambers	2	Quantity	Specific Requirement In The Project	Estimated Value(Rs.In Lakhs)
	Animal house & related			2 stability test	
	expenditure	1		1	5.00
3	autoclave	1		1 safety tests	3.00
				2 synthesis	2.00
		HUMAN RESOUR			Total :10.0

HUMAN RESOURCES TO BE INVOLVED

tuman Resource to be involved with the project

S.No	Position	No Of Positions	Qualification	Exp.(Years)	Age(In Years)	Hired Duration (in	Role In Project	Monthly Salary(In Lakhs)	Total Cost(In Lakhs)
1	Research Scientist	1	PhD	5.00	32	1	Synthesis and stability studies	0.50	8.00
2	Research Associate	1	MSc	2.00		16.0	Design and	0.25	4.00
3	Research Associate	1	BTech	2.00	27	16.0	stabilty, safety studies	0.18	2.88

CONSUMABLES DETAILS

S.No	Items	Quantity	Units(e.g:- g/ml etc.)	Approximate Cost (Rs.in lakhs)	Justification For The Requirement
1	HPLC Comuns	4	4	5.00	Purification
2	Detectors	3	3	3.00	analysis
3	reference standards	5	5	3.00	analysis
4	solvents chemicals	3	10	6.00	synthesis
5	Deep freezer	1	1	1.00	storage
		2	2	2.00	synthesis
6	Autoclave	2	2	2.00 Total Amount Require	

JUSTIFICATION FOR OTHER RECURRING HEADS

Through BIRACs Co	ntribution	
	Other Cost	Justification
S.No	(Rs.in lakhs)	for special studies and collaboration with professionals in the
	5.00	same work and Travelling for conferences and workshops to
		dissemination of information

PHARMACY COUNCIL OF INDIA

APPLICATION FOR THE CONDUCT OF WORKSHOP UNDER THE SCHEME TO ORGANISE SEMINAR SYMPOSIUM AND WORKSHOP IN PHARAMCY COLLEGE

TOPIC: "Harmonization of Curriculum - Industry Academia Meet"

From BHARAT INSTITUTE OF TECHNOLOGY, MANFALPALLY, HYDERABAD, TELANGANA

Region /state :Telangana

1. ACTIVITY: WORKSHOP

2. GEOGRAPHICAL COVERAGE: State or inter-state level

3. Name of workshop: Hormonization of Curriculum Industry Academia meet

4. Dates: from: 16/6/23 TO 17/6/23

Total number of dates: : 2 Days

5. Venue: BHARAT INSTITUTE OF TECHNOLOGY (PCI-239)

6. NAME AND ADDRESS OF ORGANISING COLLEGE:

- COLLEGE NAME: Bharat Institute of Technology
- DEPARTMENTS :Pharmacology, pharmaceutics, pharmacy practice, pharmaceutical chemistry, pharmaceutical analysis
- ADDRESS: Mangalpally, Ibrahimpatnam ranga reddy dst.
- PIN: 501510
- PH.NO:9640909041,9640909044
- EMAIL: principal.bit@biet.ac.in
- NAME OF THE AFLILIATING UNIVERSITY: <u>JNTUH</u>

- ACCREDATION OF COLLEGE: NAAC/NBA: NAAC B
 Grade
- 7. NAME DESIGNATION OF CONVENOR / CO-ORDINATOR/ CO-COORDINATOR
 - CONVENOR: Dr.ANUVRAT SHARMA

Director & Professor

CO-ORDINATOR: Dr. ARIFA BEGUM SK

Principal & professor

CO-COORDINATOR: Dr. NAMRATHA SUNKARA, Professor

The workshop intends to provide a forum for brainstorming by extendingopportunities to the academicians and industry personals with national education policy (NEP)-2020

OBJECTIVE

The basic objective is to bring together academicians and expert from differentpharma industry to facilitate the exchange of knowledge and innovation.

SCHEDULE OF THE WORKSHOP

DAY-1	ACTIVITIES	_	
SESSIC	ON Introduction: discussi	DURATIONS 30 min	NAME OF EXPERT
1	regreative of the workshop	30 min	N. KAMALAKAR RAO GENERAL MANAGER FR&D, HITECH PHARM PVT LT, BOLARAM, SANGAREDDY PH: 9502592310
SESSIC 2	of pharmacy profession and program outcomes	I hr	BRIJENDRA KUMAR SHUKLA, PLANT HEAD AND
SESSIC 3	Discussion and delibration competencies of pharmacy profession and program outcomes	1.5hr	TECHNICAL DIRECTOR, HINDUSTAN LABORATORIES LTD, PALGHAR ,MAHARASTRA PUNE PH: 02242460505
LUNCH BREAK		1 hr	
SESSIO	N4 Introduction to curriculum development and identification of critical factors of curriculum development	1hr	PCI NOMINATED EXPERT
SESSION 5	Segregation of subject expert (industrial pharmacy, pharmaceutical chemistry, quality assurance, pharmacology and pharmacognosy & photochemistry) and brain storming session for framing the syllabus		& MR. SHARATH TEKADE RN PHARMA CONSULTY/PARTNER QA MANUFACTURING PH: 8884225025
DAY-2 Session -1	Brain storming session : Recap	1 hr	D. CADADATY DAMA
Session -1	review on the outcomes from the Suggestions /proposal made for framing the syllabus fixing the duration of topics fxing credit points and to redefine the process of evaluation & assessment of student	, ,	Dr. GARAPATY RAMA PRASAD RA CHEM PHARMA LTD MADHAPUR, HYD TELANGANA -81 PH: 040-44758595 & R PURNIMA
Session	Discussion on the syllabus of the subject from participants belongs to that subject group	1.5hr	PORTFOLIO MANAGER WELDING PHARMA 9885553332
break	***		
Session -3	Arrangement of the curriculum and final draft syllabus.	1.5 hr	Ms Kavitha B GVK BIOSCIENCES,

concluding remarks 9949256510

The grant may be used for the following items:

S.NO		AMOUNT
1	ORGANIZING SECRETARY	
2	CODRDINATOR	5000/-
3	CO-COORDINATOR	5000/-
Δ	HONORARIUM PER PERSON	2500/-
5	PATICIPANTS PER PERSON	5000/- (PER PERSON)
6	TA TAITEMANTS PER PERSON	1000/-(50 PERSON)
7		3000/-
8	PRE CONFERENCE PRINTING	5000/-
0	FOOD	48500/-

BHARATINSTITUTE OF TECHNOLOGY

MANHGALPALLY, RANGA REDDY, TELANGANA

PCI-239

9640909041

principal.bit@biet.ac.in

WTel.: 26588895, 26588980,

26589794, 26589336

Email: headquarters@icmr.org.in icmrhqds@sansad.nic.in GRAM FAX :SCIENTIFIC :011-26588662



INDIAN COUNCIL OF MEDICAL RESEARCH

V. Ramalingawami Bhawan, Ansari Nagar, Post Box Bo. 4911 New Delhi - 110029

Application for grant of financial assistance for organizing Seminar

1. Title of Seminar.

One Day National Seminar on "ZEBRA FISH; A SUPER FAST AND PRICISE ANIMAL MOLEL FOR 'A to Z' HUMAN DISEASES"

2. Name of Institution seeking financial assistance.

Bharat Institute of Technology (Pharmacy),

Accredited by NAAC,

Approved by AICTE & PCI,

Affiliated to JNTU Hyderabad,

Mangalpalli - 501 510(Village), Ibrahimpatnam (Mandal),

Hyderabad, Ranga Reddy District, Telangana.

3. Name, designation and address of Organising Secretary & Convener with Pin Code including telephone/Mobile/Fax/e-mail address.

Organising Secretary:

Dr. A.V.Badarinath, M.Pharm., Ph.D.,

In-charge, Research and Development Cell,

Bharat Institute of Technology (Pharmacy),

Mangalpalli – 501 510(Village), Ibrahimpatnam (Mandal),

Hyderabad, Ranga Reddy District, Telangana.

9440916296, avbadrinatha@gmail.com

Convener:

Dr. S.Gurnath, M.Pharm, Ph.D.,

Deputy In-charge, Research and Development Cell,

Bharat Institute of Technology (Pharmacy),

Mangalpalli – 501 510(Village), Ibrahimpatnam (Mandal),

Hyderabad, Ranga Reddy District, Telangana.

9966555091, s.gurunath1979@gmail.com

4. Date (s) and place of organizing Seminar.

One Day Seminar: Date 09-05-2020, Day – Saturday.

Place: Bharat Institute of Technology (Pharmacy),

Mangalpalli – 501 510(Village), Ibrahimpatnam (Mandal),

Hyderabad, Ranga Reddy District, Telangana.

5. Grant requested for from ICMR: Rs.90,000/-

6. (a) Detailed Programme i.e. name of speakers and their topics/titles of papers/lectures etc. (date & time wise) along with list of participants may be kindly include names of speakers. (National & International) clearly- consent awaited/ not yet confirmed.

Enclosures 1.Detailed Program 2.List of Participants

(b) In what way is the Seminar expected to contribute to the existing knowledge in the field?

Existing Scenario: Existing knowledge of animal models (Rats, Mice) in "drug discovery" for various human diseases has lot of limitations. The four major limitations are consumption of long time, applicable only to certain human diseases imprecise results, high cost consumption. This scares the scientists and pharmaceutical investors to enter into the field of drug discovery which results in lack of innovation of new drugs from past few decades. With the existing models, the drug discovery, output and patent process becomes tedious. Hence numbers of patents are not coming out. This makes India poor in Innovation Ranking and Global Competitiveness Rankings.

Seminar Outcome: This seminar will introduce "Super Animal Model" (Zebra Fish) to all research people in and around Hyderabad. This seminar will be "single shot answer" for all the above issues and definitely this seminar will remain as "breakthrough" in the drug discovery research. Sure this seminar gives zeal to all scholars, scientists, students, company scientists. The impact of this seminar comes live in short and makes our India to get good Innovation rank.

(c) Has any Association/Chapter received any grant from ICMR during the last two years for organizing Seminar/Symposium? If so, give details year-wise and quote the ICMR letter No. and date, in tabular form under the following heads:-

Name of the Association	Year	Amount	Letter No.& date	Purpose	Name of the Seminar/ Symposium	Whether UC/Report submitted
-Nil-	-Nil-	-Nil-	-Nil-	-Nil-	-Nil-	-Nil-

(d) What is the total expenditure anticipated? Please give details under various heads.

S. No	Particulars Registration F		Expenditure
1	Constitution the Canons	Income	Expenditure
2	Registration Fee (300 Participants)	0	
3	Honorarium (4 Speakers X 10,000)		40,000
.,	(Members 300 x Foot		60,000
4	(Members 300 x Fool bit 200)		60,000
5	(File, Pen, Pad, Seminar CD, Material, ID card) Tea, Snackes (300 x 66/-)		20,000
	(Morning – Tea only) (Evening – Tea with Samona/D	garjan di Anglia	20,000
6	Sponsor from Bharat Institute of Technology Sponsor from ICAB	00.000	
7	Sponsor from ICMR	90,000	
	Special Holli ICIVIK	90,000	
	Balance Match	1,80,000	1,80,000

7. Details of grant requested/received from other agencies like DST, DBT, CSIR, UGC, INSA, NAMS and ICAR for the proposed Seminar/Symposium/Conference/Workshop:

Name of the Agency	Grant Requested	Grant Received	Grant received or expected	Items for which grant has been asked for
-Nil-	-Nil-	-Nil-	-Nil-	-Nil-

8. (a) Name of the authority who will be responsible for submitting the audited statement of accounts/Utilization Certificate.

Organising Secretary:

Dr. A.V.Badarinath, M.Pharm., Ph.D., In-charge, Research and Development Cell, Bharat Institute of Technology (Pharmacy), Mangalpalli – 501 510(Village), Ibrahimpatnam (Mandal), Hyderabad, Ranga Reddy District, Telangana. 9440916296, 7995649019, avbadrinatha@gmail.com

(b) The Organizing Secretary would have to submit a brief summary of scientific activity & copy of proceedings report within a period of three months.

Yes. Report will be sent with in a period of three months.

(c) Please indicate whether you are willing to accept up to two nominees of the Council for participation in the Seminar without any registration charges:

Yes. Surely we will accept up to two nominees without registration charges.

Name of the authority in whose favour payment of grant is to be released. (d)

Bank Name:

State Bank of India

Branch Name: Account Name:

Bongloor Outer Ring Road, Hyderabad

Account Number:

BIT Principal General Account

IFSC Code:

62101095523 SB1N0021069

- Check list: 9.
 - 4 copies of application (i)

Yes. Included

(ii) 4 copies of detailed programme i.e. name of Speakers and their topics/titles of papers/lectures etc. (date, time-wise).

Yes. Included

4 copies of list of participants. (iii)

Yes. Included

Kindly send the soft copy in Words:-icmrseminars@gmail.com (iv)

Yes. Mailed

It may please be noted that incomplete application/after receiving the due date will 10. not be considered and no correspondence will be entertained.

Organizing Secretary

Signature

Executive Authority

Oh-S, D, D)

Head of the Institution

Date:

Place:

Human Resource Planning and Development Indian Council of Medical Research

Financial assistance for organizing Seminars/Symposia/Conferences/ Workshops

ELECTRONIC CLEARING SERVICE (CREDIT CLEARING) / REAL TIME GROSS SETTLEMENT (RTGS) FACULTY FOR RECEIVING PAYMENTS

A. DETAILS OF ACCOUNT HOLDER :.

1	NAME OF ACCOUNT HOLDER/INSTITUTE	BIT PRINCIPAL GENERAL ACCOUNT
2	REGISTERED MOBILE NUMBER	9440916296
3	COMPLETE CONTACT ADDRESS	Bharat Institute of Technology (Pharmacy), Mangalpalli – 501 510(Village), Ibrahimpatnam (Mandal), Hyderabad, Ranga Reddy District, Telangana.
5	TELEPHONE NUMBER / FAX / E MAIL	7995649019, avbadrinatha@gmail.com
6	TITLE OF THE SEMINAR	"ZEBRA FISH; A SUPER FAST AND PRICISE ANIMAL MOLEL FOR 'A to Z' HUMAN DISEASES"

B. BANK ACCOUNT DETAIL :- (Fellow Bank Account Details)

1	BANK NAME	STATE BANK OF INDIA			IA
2	BRANCH NAME WITH COMPLETE ADDRESS, TELEPHONE	H.No-			Nagar
-	NUMBER AND EMAIL			or Village	Э,
		Pin Code			_
		Ibrahimp		(Manda	l),
		Hyderab			
		Ranga R	-	district,	
		Telangai			
		08414-2			:
		agmsecr	eg2@s	bhya.co.	ın
3	WHETHER THE BRANCH IS COMPUTERIZED ?	YES	21060		
4	WHETHER THE BRANCH IS RTGS ENABLED? IF YES,	SBIN00	21069		
	THEN WHAT IS THE BRANCH'S IFSC CODE				
5	IS THE BRANCH ALSO NEFT ENABLED?	Yes			
6	TYPE OF BANK ACCOUNT (SB / CURRENT)	Current			
7	COMPLETE BANK ACCOUNT NUMBER (LATEST)(fellow	0000005	5221004	12139	
	account)	5000024	120		
8	MICR CODE OF BANK	3000024	140		

I hereby declare that the particulars given above are correct and complete. If the transaction is delayed or not effected at all for reasons of incomplete or incorrect information. I would not hold the user institution responsible.

Date:

(Signature & Seal of Organizer)

(Signature of Head of Department)

Certified that the particulars furnished above are correct as per our records.

(...... Signature & Seal of A.O. of the Concerned Division in ICMR.....)

ANNEXURE-1

MINISTRY OF AYURVEDA, YOGA & NATUROPATHY, UNANI, SIDDHA AND HOMOEOPATHY

APPLICATION FOR GRANT-IN-AID OF EXTRA MURAL RESEARCH PROJECTS IN AYUSH

Section-A

1. Title of the Research Project:

DEVELOPMENT AND STANDARDISATION OF BROADSPECTRUM HERBOMINERAL NEUTRIENT TABLETS FOR UNIVERSAL CANCER PREVENTION.

Details of the Institution submitting the research project:

Name: Bharat Institute of Technology, (Pharmacy),

Postal address; Bharat Institute of Technology, Mangalpally - 501510, Ibrahimpatnam.

Ranga Reddy District, Telangana.

Telephone: 9963477875 E-mail: bitpharm.hr@gmail.com

3. In case of Individuals submitting the Research project:

Not applicable, Application is in the name of institution

4. Name and Designation of

Principal investigator:

Dr. A.V.Badarinath, M.Pharm., Ph.D.,

Professor of Pharmaceutics,

In-Charge: Research and Development Cell,

Bharat Institute of Technology (Pharmacy),

Mangalpally - 501510, Ibrahimpatnam, Ranga Reddy District, Telangana.

Phone: 7995649019, 9440916296, E-Mail: avbadrinatha@gmail.com

Co-Investigator(s):

Dr. N. Harishankar, Ph.D.,

Scientist 'E/Dy.Director'

National Centre for Laboratory Animal Sciences.

National Institute of Nutrition, Taranaka.

HYDERABAD - 500 007. (A.P)

Telephone: 00-91-40-27197202

FAX: 00-91-40-27003317, E-mail: hsnemani2000@yahoo.com

Duration of Research Project: 3 years

i) Period required for pre-trial preparations:

6 months

ii) Period which may be needed for collecting the data:

6 months

iii) Period that may be required for analyzing the data:

2 year

6. Amount of Grant-in-aid asked for:

	The second secon	Conference of the second of th	and the same of th	20000		
Salary -	Total	1 st Instalment	2 nd Instalment	3 rd Instalment	Remaining Amount	Withheld amount
Research Associate 1. (23,000/-pm a per AYUSH norms)	8,28,000	2,20,800	2,20,800	2,20,800	(10%) 82800	82800
Equipment Stability Chamber Make: EIE Instruments Pvt., Limited. Books	1,18,000	1,18,000				
Other Non-			••			
Recurring Expenditure Equipments						
Recurring Expenditure, Chemicals Marker Compounds etc.,	1,00,000	1,00,000		,		
TA/DA	40,000	10,000	10,000	10,000	5,000	5,000
Institutional Support (-)	1,00,000	30,000	35,000	35,000		
Fee of PI and Col	90,000 45,000	30,000 15,000	30,000 15,000	30,000 15,000		
Miscellaneous Expenses	1,00,000	30,000	30,000	20,000	10,000	10,000
Total	12,21,000	4,93,800	2,70,800	2,60,800	97,800	97,800

7. DECLARATION AND ATTESTATION

Certified that:

I/We have read the provisions, terms and conditions, mentioned in the Extra-mural Scheme along with its Annexure, Guidelines formulated by the Ministry of AYUSH and I/we shall abide by the relevant provisions contained under EMR Scheme and General Financial Rules of Govt. of India.

a) Principal Investigator: WAN BOUNNOUM, WILLIGED-10
b) Co-Investigator(s): Do. N. Han'shankar, - 1) - N 6/6/2019.
b) Co-Investigator(s): Do. N. Han'shankar, -11-wn. N 6/6/2019. c) Head of the Department: Dv: Y.PHALGUNA Tangong Signature of the Head of the Institu: Dr. Sai Krushna Padhy 1/47/6/19
or sai atushna raany for

BRIEF SUMMARY OF THE PROJECT PROPOSAL

So far, there is no universal cancer preventive formulation in the market. At present, the modern treatments for cancer are incomplete, costly, complex, dangerous (severe side effects) and unpleasant for patients as it requires long period of treatment. Allopathy still battles relentlessly to end of trauma of cancer patients. So far, there is no magic bullet that can win the cancer completely. On the other hand, chances for getting the cancer are increasing day by day and they were unavoidable. Various causes of cancer are current life style, decreased physical exercise, lack of micro, macro nutrients and antioxidants, in daily food, environmental agents like ionizing radiation, pollution, addiction to alcohol, tobacco, increased mental stress, use of cell phones, betel quid chewing, neglecting own health, carciess usage of strong medicines, unnecessary use of antibiotics for long time, frequent treatment by steroidal drugs, early menarche, late menopause, obesity, hormone use, diabetes, occupational carcinogens. 1-12

However, avoiding or minimizing the human beings to expose these carcinogenic agents is practically not possible. Prevention is better than cure. Hence, it seems, cancer chemoprevention remains as ideal strategy in anticancer arsenal. Hence the objectives of the work –

- To develop safe and potential Herbo Mineral Formulation (HMF) for prophylactic
 use of cancer.
- To prepare conventional oral tablets, by using Green tea and Sodium Selenite for prophylactic use of all types of cancers. To standardize the developed formulation according to regulatory guidelines. To perform the Quality control, Safety, and Efficacy evaluation of the Formulation. To quantify the chemopreventive activity (prominent effect) of the formulation in the laboratory animals against above cancers.
- To prove its anticancer activity (reverse of cancer) in human cancer cell line studies.

DETAILED RESEARCH PROTOCOL

Criteria for the Selection of Herbals for Formulation;

Among the various herbals, Cumellia sinensis (Green tea) was selected due to its following extraordinary properties.

- Shows affordable protection against most types of cancers like lung, fiver, e-ophagus, fore stomach, duodenum, pancreas, colon, and breast.
- Economical, widely available and non-toxic.
- Nearly all the constituents of the green tea possess antioxidant activity.
- Proved as chemopreventive in animal as well as epidemiology studies.
- It is in final stage of human clinical trials by U.S. National Cancer Institute.
- It prevents treats as well as reveres the cancer.
- Protective against genotoxic damage induced by anticancer drugs like Cyclophosphonamide and Methane sulphonate.
- Associated with many other major health benefits like lowering cholesterol, elevated blood pressure, elevated blood sugar and boosting of immune system.

riteria for the Selection of Mineral for Formulation

Among the various minerals. Sodium Selenite was selected due to its following suitable operties.

- Selenium is present in our body as a part of various antioxidant enzymes. Recognized
 and listed by National Cancer Institute. United States.
- It prevents major cancers like Liver, Stomach, Oral, Colon, Lung, Prostate etc.
- Comparatively safe mineral. Have potential chemopreventive and anticancer effects.
- Proved in animal and epidemiology studies. Daily consumption or Scientum throughout the world is very less & this leads to cancer.

Economical and widely available. Essential for our body.

WORK PROTOCOL

Procurement of Materials

- Selection of Herbal and Mineral Compounds for formulation
- Preparation of Aqueous extract of Green Tea Leaves
- Standardization of Aqueous extract of Green Tea Leaves
- Quantification of Green Tea Catachin Contents by HPTLC
- Procurement of Mineral compound Sodium Selenite

Development of Formulation

- Pre formulation Studies (Flow Properties & Derived Properties)
- Drug Incompatibility Studies by FTIR
- Preparation of Tablets by Wet Granulation (6 Formulations)
 and Direct Compression methods (6 Formulations)
- Packing of Tablets (Blister Packing)
- Evaluation of Formulations (Physico chemical Evaluation)
- Dissolution(8 basket dissolution apparatus, Paddle)

Standardization of Formulation

- Standardization of Green Tea content in tablets by HPTLC Finger Printing (Comparing the peak areas with marker compounds)
- Candardization of Sodium Sclenite in tablets by ICP-MS

Quality Assessment

- Shelf life Estimation as per ICH guide lines
- Microbial Evaluation of Tablets (Microbial Load Determination)

o' Assessment

Toxicological Evaluation of Tablets (Acute Oral Toxicity Studies as per OECD guidelines) Efficacy Assessment

- In-vivo animal Chemopreventive Studies Selection of an animal model which mimics or duplicates the human experience in experimental animals was selected for this study.
- Prevention of Lung Cancer Induced by Tobacco Smoking in Mice
- Prevention of Liver Cancer induced by alcohol in Mice
- Prevention of Skin cancer Induced by UV rays in Mice

revention of Colon Cancer Induced by Azoxymethane in Rats

Cancer Cell line Studies in human lung and skin cancer cells

Committee for the Purpose of Control and Supervision of Experiments on Animals (CPCSEA) 不明年軍事即軍軍軍軍軍軍軍軍軍軍軍軍軍軍軍軍軍軍軍 Sth Floor, Vayu Block, Indira Paryavaran Bhawan, Jor Bagh Road, New Delhi Ministry of Environment, Forest and Climate Change Government of India

सत्यमंत्र जन्म

CERTIFICATE

This is to certify that the registration of Animal House Facility of Bharat Institute of Technology - Pharmacy, Ranga Reddy District, Telangana with CPCSEA has been renewed for Research for Education purpose on Small Animals bearing registration number 1015/PO/Re/S/06/CPCSEA.

The registration is valid for five years from 26/09/2018 to 25/09/2023.

Deputy Secretary (AW) & Member Secretary (CPCSEA)

Member Secretary (CPCSEA) JEROME MINZ

Min. of Environment, Fórest à Climate Change

overnment of India

and Road, New Delhi

土土在在在在在在海南南

(Jerome Minz)

BHARAT INSTITUTE TECHNOLOGY

Mangalpally (V), Ibrahimpatnam (M) R.R. Dist

PROPOSAL FOR INDUSTRIL PROJECT BUDGET ESTIMATE= Rs/- 50000

POLYHERBAL OF **STUDIES** ANTIDIABETIC PRECLINICAL TITLE: FORMULATION ON STREPTOZOTOCIN INDUCED DIABETIC RATS.

ABSTRACT

Necessity of work:

Plants are very useful to mankind. Many of them are used exclusively for medicinal purposes. According to the World Health Organization (WHO), "a medicinal plant is a plant which, in one or more of its organs, contains substances that can be used for therapeutic purposes, or which are precursors for chemo-pharmaceutical semi-synthesis." Such plants are in great demand by pharmaceutical companies for their active ingredients.

Diabetes mellitus is one of the most common disorders affecting almost 6% of the world population and the dynamics of the diabetes are changing rapidly in low- to middle-income countries. According to International Diabetes Federation's (IDF) estimates, 80% of the world diabetic population will be from low- and middle- income countries in 2030. Globally, diabetes is one of the six major causes of death and also causing various systemic complications. Diabetes mellitus is treated by hormone therapy (insulin) or by administering glucose- lowering agents such as alpha-glucosidase inhibitors, sulfonylureas, biguanides, and thiazolidinediones.

Development of an adverse event is one of the complications in the treatment of any systemic disorder; hence, many of the research institutes and pharmaceutical companies are involved in drug development to find the molecules with good therapeutic potential and less adverse events. In traditional systems of medicine, many plants have been documented to be useful for the treatment of various systemic disorders. Many of the traditional/indigenous systems of medicine are effective than the modern system of medicine, but they suffer from lack



of complete standardization which is one of the important challenges faced by the traditional system of medicine. The concept of polyhedral formulation is well documented in the ancient literature. Compared to the single herb, the polyherbal formulation has better and extended therapeutic potential. Hence, the present study was planned to formulate and standardize a polyherbal formulation using a plant having known antidiabetic activity and evaluate its therapeutic effects in rodents.

Aim and Objectives:

- * The aim of the present study is to formulate a polyherbal formulation and evaluate its antidiabetic potential in animals.
- * The quality of the finished product will be evaluated as per the World Health Organization's guidelines.
- * Fingerprint analysis of the polyherbal formulation will be carried out to confirm the active compound present in the polyherbal formulation are same or not.
- The acute toxicity studies will be carried out for the determination of mortality rate and to fix the dose(s) of the formulation.
- The oral antidiabetic activity of the polyherbal formulation will be screened against streptozotocin induced diabetes mellitus in rats.

Plan of Work:

The plan of work for the project is described with following points:

- Collection of the plants, preparation of extracts and phytochemical analysis.
- Preparation of polyherbal formulation by wet granulation method.
- Preformulation studies and standardization of formulations.
- High-performance thin layer chromatography (HPTLC) fingerprint analysis.
- Development of quality control standards for the polyherbal capsule.
- Acute oral toxicity studies for dose fixation.
- Antidiabetic effect of herbal formulation in streptozotocin induced diabetic rats.

Result analysis and Histopathologic analysis study. * Result analysis.

Importance of the work:

The major importance of the work will be formulation of a polyherbal drug, which will dardized by using standard made. be standardized by using standard methods. The effectiveness of the active metabolites present in the extracts will be determined and quality control standards for polyherbal capsules will be development. The anti-diabetic patients development. The anti-diabetic activity studies of the polyherbal formulation will be carried out and data will be analyzed for the prescribed studies.

Proposed plan of work by

Dr. Mrinmay Das

HOD, Dept. of Pharmaceutical Chemistry, BIT.

BHARAT INSTITUTE TECHNOLOGY Mangalpally (V), Ibrahimpatnam (M) R.R. Dist

PROPOSAL FOR INDUSTRIL PROJECT BUDGET ESTIMATE= Rs/- 50000

TITLE: INTRANASAL IN SITU GEL NANOPARTICLES OF ANTICANCER DRUGS FOR BRAIN TARGETING

ABSTRACT

Necessity of work: Nasal drug delivery system provides an alternative route for the Drugs which cannot be absorbed orally. Nasal drug delivery is an efficient alternate route for systemic delivery of orally inefficient drugs. It also offers non-invasive delivery of potent peptide and perhaps protein drug molecules. The intranasal route is an accessible alternative to parenteral routes. The need for safe and effective nasal permeation and absorption enhancers is a major component for a promising future in the area of nasal drug delivery. It reduces systemic exposure and thus reduces the side effects.

AIM: The aim of the proposed research is to develop novel and stable lipid nano formulations for anticancer drugs i.e., a nanoemulsion at room temperature and turns to gel at nasal temperature for intranasal administration.

Objectives: The objectives are (1) to develop novel and stable nano particulate formulations of anticancer drugs and incorporating into an in situ gel, (2) optimization of formulation parameters using experimental designs, (3) to evaluate various physicochemical properties of these formulations, (4) to investigate the drug loading efficiency and gelation characteristics. (5) to study the stability of the developed formulations at room temperature (25°C), (6) to investigate the distribution of anticancer drugs in to the brain and cerebro spinal fluid from the formulation after intra nasal administration.

Plan of Work:

Preparation of various nanoparticulate formulations of drugs using polymers Incorporation of nanoparticle into in situ gels using lipid based polymers and emulsifiers. Eg.Triolein as lipid phase, phosphatidyl choline as surfactant 1, and a combination of poloxamer F68 and F127 as surfactant 2 were used based on literature analysis for the present study. Evaluation of intranasal insitu gels of nanoparticles: Various parameters such aspreformuation studies, gelation temperature, pH, drug content uniformity, particle sizedistribution, zeta potential, mucoadhesive strength, rheological properties, in vitro drug releasestudies, stability studies, lyophilization, and pharmacokinetic parameters evaluation.

Proposed plan of work by: Dr.Y.Phalguna

HOD, Dept.of Pharmaceutics, BIT.

BHARAT INSTITUTE OF TECHNOLOGY: MANGALPALLY PROPOSAL FOR INDUSTRIAL PROJECT

BUDGET ESTIMATE = Rs. 50,000/

TOPIC: DEVELOPMENT OF INSTRUMENT "TOBACCO SMOKE INDUCED LUNG CANCER CHAMBER" AS A EFFECTIVE NATURAL ANIMAL MODEL

ABSTRACT

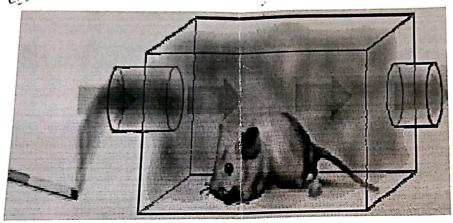
NECESSITY OF WORK: Inducing lung cancer in animals is essential step to develop anti cancer drugs. At present, all the models are using chemicals to induce the cancer in animal lungs. Developing the cancer in animals that mimics like in human (Cigarettes) is the idea of the present proposal.

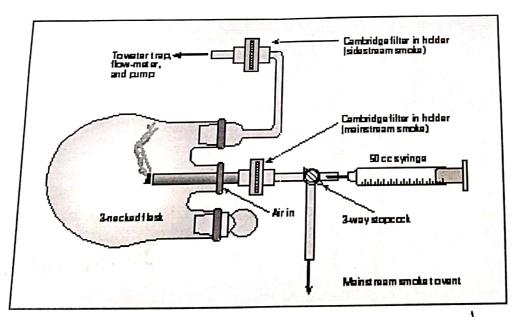
AIM: This proposal is aimed at development of naturally inducing lung cancer animal model in the line of development of anticancer drugs.

OBJECTIVE: To design, develop and getting patents the instrument "TOBACCO SMOKE INDUCED LUNG CANCER CHAMBER".

outcone! -

PROPOSED IDEAL DESIGN AND DRAWINGS IN GRAPHICS





Proposed and Pictures Drawn by: Dr. A.V.Badari Nath, Professor, BIT.