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> Defence Institute of Advanced Technology(DIAT), Deemed University (DU), Girinagar, Pune-411 025

DIAT/F/10(3)/BOM/2013-Adm

05<sup>th</sup> April 2015

# MINUTES OF THE 5<sup>th</sup> MEETING OF THE BOARD OF MANAGEMENT (BoM) OF DIAT(DU) HELD AT DIAT(DU) PUNE AT 1030 HRS ON 23<sup>RD</sup> MARCH 2015

The following were present:-

(a) Dr S Pal	VC, DIAT (DU)	Chairman	
(b) Dr GS Malik	CC(R&D) HR, DRDO Hqrs	Member	
(c) Sh RG Viswanathan	Addl FA(R&D), DRDO Hqrs	Member	
(d) Dr Hina Gokhale	DHRD DRDO	Special Invitee	
(e) Prof KN Ganesh	Director IISER, Pune	Member	
(f) Prof Girish Kumar	IIT Bombay	Member	
(g) Prof K Rajanna	IISc	Member	
(h) Dr Sangeeta Kale	Dean (Academics)/DIAT(DU) Pune	Member	
(i) Dr PK Khanna	HoD AC, DIAT (DU) Pune	Member	
(j) Dr SK Das	HoD AM, DIAT (DU), Pune	Member	
(k) Dr SE Talole	HoD AE, DIAT(DU)	Special Invitee	
(I) Dr A Kumaraswamy	CoE, DIAT(DU), Pune	Invitee	
(m)Sh Ramesh Jahagird	ar FO/DIAT	Special Invitee	
(n) Rear Admiral (Retd)			
VS Batra, VSM	Registrar, DIAT(DU) Pune	Secretary	

- 2. Registrar, DIAT(DU) welcomed all to the 5<sup>th</sup> meeting of the BoM. Thereafter Registrar invited VC and CC(R&D) HR to make opening statement, being their first meeting.
- VC stated that in his brief stint at the DIAT so far, it is evident that,
  - (a) DIAT has potential to grow as an Institute of eminence for PG Education and Research.
  - (b) DIAT has a name as the erstwhile IAT in the field

- (c) DIAT needs to re-focus on Technology Departments and establish effective interface with DRDO and Private Industry.
- (d) DIAT needs to re-look at contents and curriculum of the M Tech Programmes with a view to align them to the needs of the Stakeholders (action is being taken).
- (e) DIAT needs to start new Courses/Programmes in line with contemporary technologies (action is being taken).
- (f) DIAT needs to optimally utilize the available facilities by admitting more students under both sponsored and non sponsored categories.
- (g) DIAT needs to re-structure Deptt of Biosciences as Deptt of Biotechnology in line with AICTE stipulations.
- 4. CC(R&D) HR stated that there is a need for institutionalized interface between DIAT and DRDO Labs. He emphasised the need for DIAT Faculty to visit DRDO Labs to have an improved perspective of DRDO requirements. He assured that DRDO Hq would extend all support to facilitate the same. In this connection CC(R&D) HR agreed to eamine feasibility of implementation of Registrar's suggestion for holding one Cluster meeting at DIAT by all Cluster DGs (Formal letter since sent to DRDO Hq).
- 5. Registrar informed the BoM that Dr Ranjit Date, MHRD Rep has sought leave of absence. Thereafter, VC directed the Registrar to proceed with the agenda for the meeting.
- 6. Registrar listed the agenda for the meeting as tabulated below:-

	Point
(a)	Progress on minutes of the last meeting held on 07 <sup>th</sup> July 2014.
(b)	Ratification of Minutes of the meeting held on 07 <sup>th</sup> Jul 2014
(c)	Reporting Issues.
(d)	Agenda Points
(e)	Academic achievements of DIAT.
(f)	Any other Points
(g)	Concluding remarks by the VC.

7. Registrar apprised the BoM on the progress on the minutes of the 3<sup>rd</sup> meeting of the BoM as tabulated below:-

	Point	Progress
(a)	Annual Accounts for FY 2013-14.	Accounts alongwith Annual Report for 2013-14 has
(4)		been tabled in the Parliament.
(b)	Appointment of statutory auditors.	M/s MK Bhatia have been appointed.
(c)	Registration under Service Tax Act.	Process has been completed.
(d)	Purchase of replacement vehicle.	Order has been placed at a cost of Rs 11,23,240/-against DGS&D RC.

(e)	M Tech programme in UWS in collaboration with IIT M	Deferred till 2016.	
(f) M Tech programme in Technology Management(TM).		The course was started in 2014. Total revised financial implication for 2-years programme in part collaboration with IISc amount to RS 82 Lakhs approximately for both IISC and non-IISC conducted capsules	
(g)	M Tech programme in Biosciences and Engineering		
and deta		The programme was completed on 26 <sup>th</sup> Dec 2014 and detailed report rendered to DRDO Hq on 29 <sup>th</sup> Dec 2014.	
(j)	Ownership of Papers and patents	Issue is being discussed as an agenda point.	

8. Thereafter, Registrar sought ratification of the minutes of 4<sup>th</sup> BoM meeting held on 07<sup>th</sup> July 2014. **The BoM ratified the minutes**.

#### **Reporting Issues**

- 9. Registrar apprised the BoM following:-
  - (a) Recruitment of 05 Assistants (04 Open and 01 ESM).
  - (b) Recruitment of 03 Library Assistants.
  - (c) Recruitment of 01 Lab Supdt and 10 Lab Assistants is in progress.
  - (d) Recruitment of 01 Asstt Registrar on deputation has been initiated.
  - (e) Recruitment of 01 Lab officer has been initiated for DIAT Data centre.
  - (f) Recruitment of 01 Supdt and 02 Assistants (ESM) has been initiated.
  - (g) Revised Society and Statute documents have been approved by the Chancellor/Raksha Mantri (RM). Application has been filed with Registrar of Societies for change of name from IAT to DIAT. On receipt of the approval, the document will be printed and distributed to all concerned.
  - (h) Waiver from the reservation policy has been turned down by DRDO Hqs and drive for recruitment of Faculty against Reserved vacancies is being initiated. After brief discussions on the issue it emerged that Government prescribed norms have to be followed and deviation if any be sought after due procedures have been followed.
  - (j) NAAC Team is visiting DIAT on 12<sup>th</sup>-14<sup>th</sup> May 2015. Dates for NBA Team's visit are awaited.

- (k) Last GB Meeting was held in Apr 2013 and that of GC in Nov 2013. Further, last Convocation was held on 31<sup>st</sup> May 2013. After brief discussion, CC(R&D) HR directed that cases may be initiated to seek formal directions of the RM.
- (I) Minutes of the meeting held in Nov 2014 and Chaired by the then SA to RM have been received about bifurcation of MILIT and DIAT w.e.f 01<sup>st</sup> Apr 2015. Thereafter MILIT will cease to be DRDO Lab and would function as an AFTI under IDS Hq. Accordingly there will be a need to activate pending cases of DIAT for Technical Building, Girl's Hostel, Studio Apartments. Further, certain common facilities viz MI Room, Sports, Fire Fighting, CSD Canteen, Control of KV etc, presently shared with MILIT would also need to be created for DIAT.
- (k) As part of the Campus selection RAC/DRDO have selected two M Tech students of DIAT Aero Deptt have been selected as Sc B. Members advised that Deptt to respective DRDO Labs interface will improve this figure. After brief discussion it was decided that DIAT will put up department-wise status of post programme jobs obtained by non-sponsored students.
- (I) DIAT Alumni Association has been registered on 05<sup>th</sup> Dec 2014. All the members advised that the association needs to be used for improved placements.

#### **Agenda Points**

10. Various agenda points discussed and decisions taken are tabulated below:-

	Points	Discussion	Decisions Taken
(a)	Engagement/Ex	Deptt of Applied Physics(AP). It	It was decided that no
1.57	tension of	emerged that requirement of	further extension be
	<b>Engagement of</b>	Deptt of AP has already been met	given to any Contract
	Contract	by recruitment of regular faculty.	Faculty.
	Faculty.		
	Detailed brief	Deptt of Biosciences. Whilst	The M.Tech programme
	was circulated	Members accepted the necessity	will not be offered during
	w.r.t 05	to have a vibrant Deptt of	2015. The syllabus and
	Contract Faculty	Biotechnology but its scope has to	the contents will be
	(04 in Deptt of	be worked out keeping in view	
	Bio upto 31 <sup>st</sup>		with DG LS.
	May 15 and 01	l aunn	Interests of the PhD and
	in Deptt of		M Tech Students of the
	Applied Physics	were held with DG LS/DRDO on the	Deptt of Bio will be
	upto 16 <sup>th</sup> April		safeguarded by faculty of
	15).	encouraging SC to opt for	other departments at
	137.	Visiting/Adjunct Faculty status at	DIAT as also DRDO LS
		DIAT. Director IISER emphasized	Labs.
		the need for core faculty in any	
		department.	scope for the Deptt of

			Biotechnology will be worked out by DRDO Hq by end Sep 2015.  VC will have interactions (or visit) with various LS laboratories to get a feel of their requirements. DHRD will facilitate the same (Visits being planned in 2 <sup>nd</sup> half of May 2015).
(b)	Pay and Service Conditions for DIAT Staff	BoM was apprised that whilst Academic personnel are governed by norms issued by MHRD/UGC, non-academic personnel are governed by rules and regulations promulgated by MHRD/DOP&T from time to time.  Accordingly, enabling approval was sought for VC to apply norms as promulgated from time to time.	Approval was accorded for VC to approve application of norms from time to time as part of delegated powers to VC subject to BoM being apprised in the following meeting.
(c)	Acceptance of Graduation Certificate for Ex- servicemen(ES M) issued by respective services as per DOP&T Norms	The issue was discussed and Registrar apprised the BoM about the implications	BoM approved application of DOP&T norms for recruitment of ESM against vacancies reserved for ESMs.
(d)	Medical scheme for DIAT personnel.	BoM was apprised that DIAT had introduced a medical scheme at par with the one at ADA after due approval of the Governing Council (4 <sup>th</sup> meeting). The scheme stipulated monthly contribution less than CGHS rates. The Test audit objected to this anomaly. Accordingly the scheme has been revised as under:-	

		Grade pay in Rs	Pre- revision contributio n in Rs	Post- revision contributio n in Rs	BoM approved the proposal.
		Upto 1650 1800,1900, 2000,2400 and 2800	1% of basic pay(BP+GP /AGP) to a min of Rs	50 125	
		4200 4600,4800, 5400,6600 incl AGP of	100/- and max of Rs 250/-	225 325	
		6000-7000 7600(AGP 8000) and above		500	
(e)	Awards at DIAT	the followin (i)Increase of 70,000/- to (ii) Flexibili	g:-	to decided	After discussion, the increase to Rs 1,50,000/year was approved with the proviso that specific categories will be promulgated by the VC
(f)	Payment to M Tech and PhD students for expenditure from their annual contingency grant	no specific the VC for a M Tech 5000/year)	powers denthorising particular students and PhD Stu	there were elegated to payments to (upto Rs idents (upto evised from	BoM approved the delegation of powers to VC.
(g)	Introduction of Annual Medical Examination Scheme to all Group A Officers on the lines of scheme promulgated for DRDO.	introduction Group A of years of DI 50 years in	n of the sch fficers abov AT as also other catego		BoM approved the proposal for all above 40 years age Group A Officers of DIAT with the directions that financial implications be worked out for those above 50 years in other categories.
(h)	New M Tech programmes	introductio programme	n of Nev es in	E proposed v M Tech Navigation or Networks	processing of the proposal in consultation

(				
			and Robotics & UAVs. Chairman PGC apprised the members of the contours of the proposed programmes.  During discussions it emerged that it may be desirable to have generic nomenclature for programmes with specialization in the relevant fields. Views of stakeholders may also be ascertained.	stakeholders.
	(j)	Enhancement of Ph D fellowship	Approval was sought for the following:- (i) Scholarship to PhD students as per MHRD communications from	BoM approved the proposal.
			time to time.  (ii) Fellowship to Project Staff(JRF, SRF,RA,PA etc)as per norms of funding agencies from time to time.	
	(k)	Budget for 2014-15	BoM members were apprised about the discussion held at the Finance Committee meeting earlier in the day	BoM approved that proposal for Rs 24.15 crores for 2015-16. Further, a three years roll on Technology Equipment Induction Plan (with year-wise cash flow) for Capital Expenditure may also be processed for concurrent approval.
	(1)	M Tech in UWS	VC apprised all about the discussions held at NIRDESH under the Chairmanship of Secretary Defence Production about stimulating Shipbuilding industry in India as part of the Make in India campaign of the Gol.  VC further stated that feasibility was being explored to restructure the planned UWS Programme accordingly.	processed.
	(m)	M Tech in TM	Addl FA and JS observed that there is vide variation in the original (Rs 28 Lakhs) and revised projections	decided to continue the

		(Rs 82 Lakhs) and stated that there	with proviso that annual
		is a need to make proper and	feedback may be given to
		accurate estimate before starting	the BoM. Programme to
		any programme in future.	be reviewed after 2016.
(n)	M Tech in Bio	(a) above refers	(a) above refers
(o)	IPR ownership	As per present norms ownership of	After discussions BoM
	-	IPR is vested in DRDO/DIAT. Based	approved the proposal.
	g = 0 y = 0	on requirement projected by	
	=	Bharat Forge for sponsoring	
	9	project, it was proposed that	<i>n</i> =
		approval may be accorded for joint	
		ownership of IPR in respect of	
	1 14 4 5	funded/jointly funded projects.	
(p)	Need for	Registrar apprised the Members	(i) After discussions, BoM
	increased	that strength of Sponsored	approved the measure
	strength of	category students has been	for one year (to be
	students in each	between 46-60 during the last 04	reviewed in 2016) with
	programme.	years and that there was need to	the proviso that fee
21:		make up the shortfall (from AICTE	structure would be at
		approved strength of	par with IIT B, Hostel
	T, - b	25/Programme) be admitting more	accommodation will not
		GATE qualified students from open	be assured and DRDO
		category. This would also increase	Rep will be called for all
	2	visibility of DIAT amongst the	interviews.
		Defence related private industry in	
	n Beerlan	the context of 'Make in India'	advised to work out per
	for all and	programme launched by the Gol.'	student variable cost(s)
	at any and		for each programme

- 11. <u>Academic Achievement of DIAT</u>. Dean Academics made a detailed presentation (Appendix A) on the academic achievement of DIAT during last one year. DHRD enquired regarding the citation index of the publication pointing out that the request had been made in previous BoM meetings, but never presented. Professor Ganesh also endorsed DHRD views. After due deliberation on the different levels of indices for different subjects, it was decided that in the next meeting citation index or any other relevant measure that values the paper on international scale should be put up.
- 12. <u>Incubation Centre and Entrepreneurship related Issues</u>. Professor Girish Kumar narrated the experience of the measures at IIT B and stated that the issue brought up by him in earlier meeting also needs to be progressed. VC agreed to proceed further (Committee since appointed to examine the issues).

- 13. VC thanked all for constructive and meaningful participation in the meeting. There being no further point, the meeting was adjourned.
- Next meeting of the BoM will be held in Jun/Jul 2015 at Pune.

(VS Batra)

Rear Admiral(Retd)

Registrar & PD POINTS programme

Enclosures: Appendix A

Distribution:

**All Members** 

Copy to:-

Chancellor, DIAT through CC(R&D) HR/DRDO Hqrs,

Secretary Defence (R&D) and SA to RM

MHRD (Secretary Higher Education), Secretary UGC



#### Academic Achievements (From June 2014 To Till Date)

Teaching courses and Training Manpower in areas relevant to DRDO / Defence Services, PSUs, and now possible Private Industries related to Defence Production under "MAKE IN INDIA".

# FUNCTIONS OF DIAT

- Induction Training of DRDO Scientists POINTS
   Programme
- M Tech for Services Officers, DRDO Scientists, DPSUs Officers and Students from Open Category Subject to Vacancies
- Phd for DRDO Scientists , Service Officers and Students from Open Category
- Customized Courses for DRDO and DPSUs

# STUDENTS STRENGTH . M. Tech | st | Year - 112 | . M. Tech | lind | Year - 101 | . PhD - 139 43 | 18 | 7 | 3 | 66 | 2 FACULTY STRENGTH DIAT Faculty - 38 + 05

# MILIT-DIAT INTERFACE FOR TEACHING

MILIT - 1070 Hrs For DIAT DIAT - 943 Hrs For MILIT

.Aerospace Engineering-10

. Applied Physics - 01

Electronics Engineering - 01

. Mechanical Engineering - 02

.Computer Science & Engineering - 01

. Material Science & Engineering - 04

.Applied Chemistry – 02

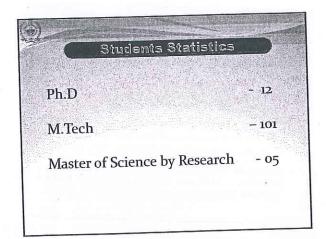
#### M.Tech. Programmes

- 02

- Aerospace Engineering (Guided Missiles)
- Aerospace Engineering (Air Armament)

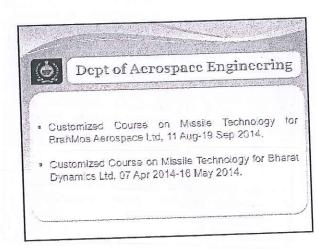
**DRDO Scientists** 

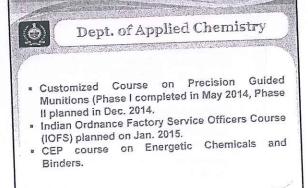
- Mechanical Engg (Armament / Combat Vehicles)
- Mechanical Engineering (Marine Engg)
- Electronic Engineering (Radar & Communication)
- Electronics Engineering (Defence Electronic Systems)
- Computer Science & Engineering (Cyber Security)
- Applied Physics (Lasers & Electro-Optics)
- Applied Physics M.Tech. in Sensor Technology
- Applied Mathematics (Modeling & Simulation)
- Materials Engineering (Materials Science & Technology)
- Applied Chemistry (Chemical Science & Technology)
- M.Tech in Technology Management (jointly with USc, Bangalora.)
- M.Tech. in Biotechnology

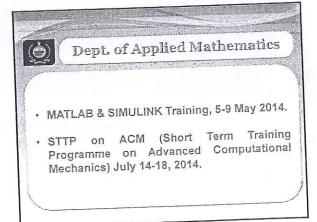


	Publications (Since Last BOM)	
SI. N	o, Departments	Nos.
1	Aerospace Engineering	13
2	Applied Chemistry	15
3	Applied Mathematics	06
4	Applied Physics	22
5		02
6		12
7	A R. Burn Liver, Automorphism and Co.	06
8		24
9		28
	0 Technology Management	01
1	Total	129











# Dept. of Applied Physics

- Workshop-cum-meeting on "Road map for DIAT for indigenous development of ELFE sensing probe/element": 25 Apr 2014
- Workshop-cum-meeting on "Materials Studio & interaction meeting on Graphene based devices":01 Oct 14
- Upcoming International Conference on Sensor Technology – Jan 2016



## Dept. of Bioscience & Technology

- Constitution of institutional bio-safety committee under the norms of DBT, Govt. Of India
- Developed Tie-up with Dept. Of Biosciences., DIAT and PASSCO environment Pvt. Ltd. for disposal of biohazard as per the norms of MPCB, Govt of India
- Developed Tie-up with Dept of Biosciences & Technology, DIAT and Krishna Institute of Medical Sciences, Karad



#### Dept. of Computer Science Engineering

- DIAT and IIT Kharagpur organized an International Conference Security, Privacy and Applied Cryptography Engineering (SPACE 2014), October 18-22, 2014 in DIAT Campus.
- The SPACE 2014 featured invited talks by experts, research paper presentations, tutorials, and workshops.



### Dept. of Electronics Engineering

- Technology Demonstration of Very light, high resolution of
- Technology Demonstration of , a Bandwidth Efficient modulation techniques for telemetry applications.
- Customized Orientation Program for Management Trainee of HAL (Avionics Group)



# Dept. of Materials Engineering

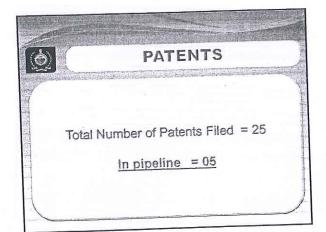
 Seminar on Electron Microscopy and Annual General meeting of Electron Microscopy Society

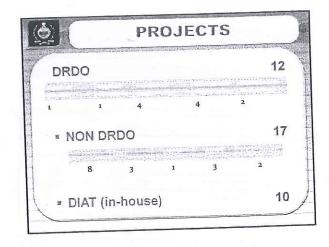
(March 2014)

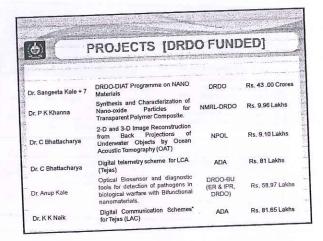


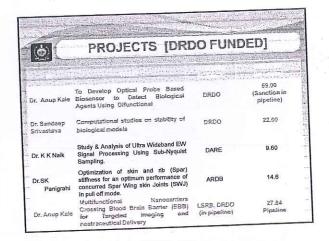
# Dept. of Mechanical Engineering

- Customized Orientation Program for Management Trainee of HAL (Mechanical Group) - 23rd June to 18th July 2014.
- New Facilities Built:
- Mechanical System Design & Analysis Centre
- Development of Experimental Set up towards Gun Barrel Cleaning with Ultrasonic
- Development of Electroless Ni Coating Set up for Marine Application





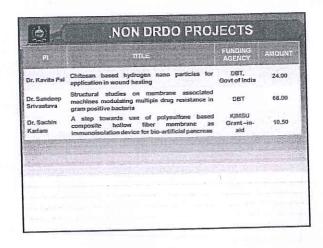




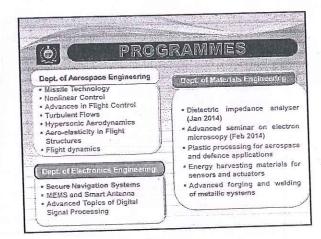
	NON DRDO PROJEC	15	
efeligina elektrosisch		Z	
Dr. Sangeeta Kale	Fabrication of Metamaterial gold/silver structures from GHz to PHz domain for biosensing applications	INUP Project - IIT-Bombay	5.0
Dr. Revilcant Choubey	Modification in chemical Bath Deposition Setup, Growth & Cherocterization of Semiconducting Thin Film For Photomolisis Applications.	OST	23.5
Dr. P K Khanna	Studies on Signal Source Molecular Presursors Derived from 1.2,3 Selemadiazoles and Transition Metals for Synthesis of Magic Sized Nano Clusters and Quantum Dots.	DST	20.1
Dr. Shaibal Banerjee	Metal Catalyzed Reactions: Theia Utility in High Energy Density Materials	DST	24.0
Dr. Chetan J Bhongale	Developing Strategies for robust functional hybrid nanomaterials for solar cells: Synthesis, film formation and device fabrication*	SERB	20.7
Dr. Piyush More	Semiconductor Quantum Dots/ Conducting Polymer Hetro-Junction Based Photovoltaic Devices for High Efficiency		85.0
Dr. C.Bhattacharya	on EPGA platform	DIAT(DU), & SAMEER, Mumbel	46 .0

(d)	PROJECTS [DRDO FI	INDEDI	215072-57
Dr.SK Panigrahi	Launcher Pod with Optimized Weight and configuration using Non-Linear Finite Element Analysis	ARMREB	2.76
Dr. A Kumaraswamy	A Research project on 'Numerical modelling of Tribological characteristics of high pressure reciprocating hydraulic seals subjected to shock loading' sanctioned by	R&DE	9.99
Dr. Sunil Chandel	Study of Ice Accretion on an Airfoil Using CFD	ARDB, DRDO	28.27
			-
	A STATE OF THE PARTY OF THE PAR		

め日	NON DRDO PROJECTS			
P)	mle	FUNDING AGENCY	AMOUNT	
Dr. K.Krishna Našk	Software Defined Radio based Multiband Transceiver ( Proposal under process)	SERB	Rs. 49 Lakhs	
Dr. Kavita Pal	Chitosan based hydrogen nanoparticles for applications in wound healing.	DBT- BIOCARE, Nova Dathi	Rs. 21 Lakhs	
Dr. Sandeep Shrivastava	Structural Station on Membrane Associated Molecules Machine Modulation Multidump Resistance in Gram +ve Bacteria.	DBT	Rs. 65 Lacks	
Dr. H. S. Panda	Semiconductor quantum dots in LDH for diagnosis of cancer	DST	Rs. 7.5 Lakhs	
Dr. T. U. Patro	Investigation of mechanical and electrical properties of reticulated vitrous carbon (RVC) foams from polyurethane precursors impregnated by nanofillors for fuel cell applications	DST	Rs. 20 Lakhs	
Dr. HS Panda	Spatil distribution of uranium and associated water quality parameters in three districts of Maharashira (Pune, Ahmednagar and Satara)	BRNS	Rs. 22.5 Lakh	









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