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**उन्नत प्रौद्योगिकी रक्षा संस्थान**

(सम विद्बविद्यालय), गिरिनगर, पुणे - 411025  
**Defence Institute of Advanced Technology**  
(Deemed University), Girinagar, Pune-25  
(रक्षा अनुसंधान एवं विकास संगठन से पूर्णवित्तीय पोषित  
स्वायत्त संस्थान, रक्षा मंत्रालय)  
(An Autonomous Organisation fully funded by  
Dept of Defence R&D, Ministry of Defence)

No. DIAT/F/ADM/33<sup>rd</sup> BoM/2023/

Dated 08<sup>th</sup> Jan, 2024

**All Members of the Board of Management  
Defence Institute of Advanced Technology  
(Deemed to be University), Pune**

**Subject: Minutes of the 33<sup>rd</sup> meeting of the Board of Management held on  
22/12/2023**

Dear Sir / Madam,

The Minutes of the 33<sup>rd</sup> BoM meeting held on 22/12/2023, approved by the Chairman, BoM is attached herewith for your perusal and comments please.

2. It is requested that comments, if any, on these minutes may please be communicated to the undersigned by email ([registrar@diat.ac.in](mailto:registrar@diat.ac.in)) within one week. If no comments are received, it would be presumed that minutes as recorded are in order and further action on the implementation of the decision shall be taken accordingly.

Thanking you.

Yours faithfully,

(Kamal Kumar Bajre)  
Registrar & Secretary-BoM  
Ph: 020-24604408

Encl: As above.

To,

**DRDO Members**

1. Smt. U. Jeya Santhi, OS & DG (HR), DRDO, DRDO Bhawan, Rajaji Marg, New Delhi 110011, Telephone - 011-23016163, Fax: 011-23016127
2. Shri Vedveer Arya, Addl. FA & JS - DRDO, DRDO Bhawan, Rajaji Marg, New Delhi - 110011, Telephone: 011-23010159, Fax: 011-23016217
3. Dr. Makarand G. Joshi, OS & Director, Research & Development Establishment (RDE), Pune, R & DE (Engrs), Kalas, Alandi Road, Pune 411 015

**External Members**

4. Prof. Devang Khakkar, Former Director & Professor, Department of Chemical Engg, Indian Institute of Technology Bombay, Powai, Mumbai - 400076, Email:- [khakkar@iitb.ac.in](mailto:khakkar@iitb.ac.in)

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5. Prof. B. S. Murthy, Director, Indian Institute of Technology, Hyderabad, Kandi, Sangareddy, Telangana - 502284, Email:- [office\\_director@iith.ac.in](mailto:office_director@iith.ac.in), [director@iith.ac.in](mailto:director@iith.ac.in)
6. Prof. Madhavan Mukund, Director, Chennai Mathematical Institute, Siruseri, Kelambakkam, Tamilnadu - 603103, Email:- [madhavan@cmi.ac.in](mailto:madhavan@cmi.ac.in)

**Internal Members**

1. Prof. Balasubramanian K, Dean (Academics), DIAT
2. Prof. A. Kumaraswamy, Dean (Students Affairs), DIAT
3. Prof. P. K Khanna, HoD, Deptt. of Applied Chemistry, DIAT
4. Dr. Suvarna Datar, Associate Prof & HoD, Applied Physics, DIAT

**Copy to:**

**VC, DIAT (DU) Pune**

प्रबंधन बोर्ड की बतीसवी बैठक का कार्यवृत्त

**MINUTES OF THE 33<sup>rd</sup> MEETING OF THE  
BOARD OF MANAGEMENT**

**22<sup>nd</sup> DECEMBER, 2023**



**उन्त प्रौद्योगिकी रक्षा संस्थान**  
(सम-विश्वविद्यालय)  
गिरीनगर, पुणे - 411025

**Defence Institute of Advanced Technology**  
**Pune- 411025, Maharashtra**

## DEFENCE INSTITUTE OF ADVANCED TECHNOLOGY PUNE, MAHARASHTRA



### MINUTES OF THE 33<sup>rd</sup> MEETING OF THE BOARD OF MANAGEMENT FRIDAY, DECEMBER 22, 2023

<u>ITEM NO.</u>	<u>Particulars</u>
<b>Bom 33.1</b>	Opening Remarks by Vice Chancellor & Chairman, Board of Management
<b>Bom 33.2</b>	Action taken report on the decisions taken during the 32 <sup>nd</sup> Meeting of BoM held on 22/08/2023
<b>Bom 33.3</b>	Confirmation of the Minutes of the 32 <sup>nd</sup> Meeting of BoM
<b>Bom 33.4</b>	<b><u>REPORTING ITEMS</u></b>
<b>Bom 33.5</b>	<b><u>AGENDA ITEMS FOR DISCUSSION</u></b>
<b>Bom 33.5.1</b>	Extension of contingency facility to all other categories of M.Tech, MSc and PhD Students
<b>BoM 33.5.2</b>	To Consider and approve Budget Estimate for the year 2024 – 25
<b>BoM 33.5.3</b>	Proposal to start MSc Tank Technology
<b>BoM 33.6</b>	<b>Any other item with the permission of the Chair.</b>
<b>BoM 33.6.1</b>	Recognition of DRDO Scientists as Faculty Members of DIAT.

**DEFENCE INSTITUTE OF ADVANCED TECHNOLOGY**

Minutes of 33<sup>rd</sup> Meeting of the Board of Management held on 22<sup>nd</sup> December, 2023 from 1130 hrs in the 4<sup>th</sup> Floor Conference Room, DIAT, Pune.

The following were present:

- |     |   |             |
|-----|---|-------------|
| 1)  | Dr. C.P. Ramanarayanan<br>Chairperson, BoM DIAT                   | Chairperson |
| 2)  | Prof. B. S. Murthy<br>Director, IIT Hyderabad                     | Member      |
| 3)  | Prof. Madhavan Mukund<br>Director, Chennai Mathematical Institute | Member      |
| 4)  | Dr. Makarand Joshi<br>Director, R&DE Engg, Pune                   | Member      |
| 5)  | Prof. Balasubramanian K.<br>Dean (Acad), DIAT(DU)                 | Member      |
| 6)  | Prof A. Kumarswamy<br>Dean (Student Affairs), DIAT(DU)            | Member      |
| 7)  | Prof. P. K. Khanna<br>Prof. & HoD, AC, DIAT(DU)                   | Member      |
| 8)  | Dr. Suwarna Datar<br>Asso. Prof. & HoD, AP, DIAT(DU)              | Member      |
| 9)  | Shri R. K Jain<br>Rep. of DG(HR)                                  | Member      |
| 10) | Dr. Vidya K. Gargote<br>Finance Officer, DIAT(DU)                 | Invitee     |
| 10) | Prof. Shaibal Banerjee<br>Chairman PGC, DIAT(DU)                  | Invitee     |
| 12) | Shri Kamal Kumar Bajre<br>Registrar, DIAT                         | Secretary   |

Leave of absence has been granted to the following:

- |    |  |        |
|----|--|--------|
| 1) | Prof. Devang Khakkar<br>Former Director, Professor,<br>Department of Chemical Engg,<br>IIT, Bombay | Member |
| 2) | Shri Vedveer Arya<br>Addl. FA(SM) & JS, DRDO   | Member |

The Chairperson welcomed all present at the meeting.

**Item No. 33.1: Opening Remarks by Vice Chancellor & Chairman, Board of Management.**

At the outset, the Chairman, BoM welcomed all members and presented a brief on the progress of DIAT since last BoM.

Thereafter, the agenda items were taken up as follows:

**Item No. 33.2 Action taken report on the decisions taken during the 32<sup>nd</sup> Meeting of BoM held on 22/08/2023.**

<u>Agenda points</u>	<u>Agenda points discussed</u>	<u>Decision</u>	<u>Progress / Action taken</u>
<b>Item No. 32.5.1</b>	To consider 5-years vision document for DIAT	After detailed deliberations, the BoM <b>RESOLVED</b> to approve the 5- year vision document <b>as per Annexure-32.5.1</b> , with following inclusions: a) Provision of Faculty Development Programme which includes, strengthening of faculty numbers, attracting better faculty and nurturing them. b) Road map to be a top-ranking institute in NIRF.	Action completed. Para (a) and (b) of the resolution has been included in the 5 year vision document.
<b>Item No. 32.5.2</b>	Establishment of Centre of Excellence in Advanced Nano Alloys at DIAT, funded by Ministry of Heavy Industries	BoM resolved to recommend the following for approval of Chairman, Governing Council  Permission may be accorded to M/s Vikarsh Nano Technology and Alloys Pvt. Ltd., Pune, the 'Industry Partner (IP)' to construct a building of approximately 5000 square foot area at DIAT premises at their cost to house equipment for the Centre of Excellence.	Proposal has been submitted to MoHI.
<b>Item No. 32.5.3</b>	Adoption of revised emoluments for DIAT institutional fellowship to full time PhD Scholars	The BoM approved the revision of DIAT institutional fellowship to full time PhD scholars w.e.f from 01/09/2023	Implemented.
<b>Item No. 32.5.4</b>	To consider award of MSc (Defence Technology) Degree to MILIT personnel	The BoM approved award of MSc (Defence Technology) Degree to MILIT personnel from the current academic year.	A total of twenty-six (26 Nos) students admitted to the M. Sc (Defence Technology) programme for the AY 2023-25
<b>Item No. 32.5.5</b>	Approval of DIAT Consultancy Policy	The BoM approved the DIAT Consultancy Policy as per	Proposal awaited

		<b>Annexure- 32.5.5</b> and advised that proposal for distribution of Consultancy fees be presented to the BoM for consideration.	
<b>Item No. 32.6.1</b>	Centre of Excellence – Cryptanalysis	The BoM appreciated the proposal and resolved to establish Centre of Excellence in Cryptanalysis at DIAT.	Statement of Case (SoC) has been sent to DRDO HQ.
<b>Item No. 32.6.2</b>	Upgradation of DATA Centre servers	The BoM agreed for the need of 03 components for Data Centre. However, the BoM advised to obtain expert /wider opinion on the platforms and configuration before moving forward.	Statement of Case (SoC) has been sent to DRDO HQ.

The BoM noted the action on the decision taken in 32<sup>nd</sup> BoM meeting as above and advised to upload the vision document on the website of the institute (Item No. 32.5.1).

[Action: Registrar]

**Item No. 33.3 To confirm the minutes of the 32<sup>st</sup> meeting of the Board of Management held on 22/08/2023**

It was noted that the minutes of 32<sup>nd</sup> meeting of the Board of Management (BoM) held on 22/08/2023 have been circulated and no comments have been received. Therefore, the minutes of 32<sup>th</sup> meeting of the Board of Management (BoM) meeting held on 22/08/2023 was **confirmed**, as circulated.

**Item No.33.4: Reporting Items:**

**I. APPROVALS**

The following reporting items were noted by the BoM.

- i) Shri Hardeep Singh, Scientific Officer on his posting to MMG has been made a maker in corporate internet banking for ICICI Bank in place of Shri Pankaj Vaidya, Assistant Registrar.
- ii) Opening of Bank Account (Saving & Current) in YES Bank for collection of students fees and hostel related payments.
- iii) Review of Actual Expenditure (GIA) for the F. Y. 2023-24 and additional funds requirement was presented in the 30<sup>th</sup> FC meeting held on 05/10/2023.
- iv) Meeting of 10<sup>th</sup> Planning and Monitoring Board was held on 21/09/2023.

**II. APPOINTMENTS**

Sr No	Name	Designation	Date of Appointment	Dept
1.	Dr. Hari Om Verma	Assistant Professor	28/08/2023	Aerospace Engg.
2.	Dr. Rahul Yadav	Assistant Professor	03/10/2023	School of E & E Systems
3.	Shri Hardeep Singh	Scientific Officer	05/09/2023	MMG

**III. CONTRACT EXTENSION:**

- i) The contract appointment of Prof. R. K. Satapathy has been reviewed and extended for a further period of one-year w.e.f. 14/12/2023
- ii) The contract appointment of Prof. C. S. Unnikrishnan has been reviewed and extended for a period of one-year w.e.f. 20/10/2023

**IV. PROMOTION**

- i) Prof. P. K. Khanna has been promoted as Senior Professor (Level -15) w.e.f. 13/07/2021 under CAS.

**V. ADOPTION OF NEW MOA-2023 (MOA) IN ACCORDANCE WITH UGC GUIDELINES**

The UGC has notified the amended UGC (Institution Deemed to be Universities) Regulations, 2023 in the Gazette of India on 02/06/2023 (Annexure-33.5.1) and requested all universities under the category to submit amended MoA – 2023 within one year from the date of commencement. Accordingly, revised MoA is being prepared in accordance with the provisions of UGC regulations. A committee will be constituted to prepare the revised MoA.

**VI. DOUBLE DEGREE PROGRAM WITH CRANFIELD UNIVERSITY**

Out of five students who had been admitted for the double degree prgme in Cranfield, two students (Aerospace and Mechanical Engg.) successfully registered at Cranfield (who are in the 2<sup>nd</sup> year M.Tech of DIAT and 1<sup>st</sup> year of MSc in Cranfield). Professor Suresh Sampath, Cranfield University, UK visited DIAT in the last week of November 2023. During his visit he interacted with HoDs and Sr. Faculty members of all the departments and schools to discuss the scope of maximum support in the masters registration at Cranfield in future. During the month of Jan-24 he shall arrange a virtual conference for freezing the final MoU.



**VII. ACHIEVEMENTS / AWARDS / RECOGNITIONS**

Following patents / provisional patents and Industrial design have been granted since the last BoM to till date:

Sr. No.	Patent No. & Date	Patent Title	Inventors
1	07/11/2023 (Provisional) No. 202311072601	O-Allylated Ferrocene Grafted HTPB as Burn Rate Modifier.	Prof. Shaibal Banerjee
2	27/09/2023 No. 455418	A Phase Change Material And A Process for Preparing The Same.	Prof. Prashant S. Kulkarni
3	20/10/2023	A Strip for Mercury Ion Detection.	Prof. P. K. Khanna

**Details of Industrial Design filled**

Design title	Filed date	Inventor
Conical Doser with A helical Blade	08/11/2023	Prof. Balasubramanian K.
Hexagonal Hopper with Triangular folds	08/11/2023	Prof. Balasubramanian K.

**VIII. PLACEMENT**

CTP had made efforts for enhancing the visibility of DIAT for placements. Directors and senior people from various industries were invited to the institute in the last six months for orientation as well as pre placements talks. It has also made effort with Technology Management to train students for group discussions, team building and etc.

**IX. PROJECTS THE INSTITUTE HAS UNDERTAKEN SINCE LAST BOM**

Sr. No.	Type of Project	Sanctioned	
		No. of Projects	Amount (in lakh)
1	Research Projects	08	246.56

**PROJECT DETAILS**

Sl. No.	Project Title	Name of PI & Co-PI	Duration of the Project	Name of Dept/ School	Grant in Lakhs (₹)	Funding Agency
1.	Development of sensor array system for detection of HS, NO and CO in breath samples of mountaineers at high altitude	Dr. Suwarna Datar- PI, Prof. Shaibla Banerjee - Co-PI, Dr. Jitendra Ingole - Co-PI	03 Years	Applied Physics	₹ 112.13	ER&PIR-DRDO

2.	A investigation of UAV platform & optical stabilization for establishing a non-LoS FSO link	Dr A. Brazil Raj - PI	06 Months	Electronics Engg.	₹ 5.00	DIAT
3.	Development of Wideband Antenna Array and wideband RF Power Combiner/ Splitter Network for Wideband RF System	Dr. Rajesh Kumar Singh - PI	01 Year	Electronics Engg.	₹ 13.53	CARS-DRDO
4.	Artificial Intelligence-enabled analysis of sludge-derived biochar for the treatment of heavy metal and dye pollutants in aqueous system	Dr. Amrita Nighojkar - PI Prof. Balasubramanian K - Co-PI	02 Years	Technology Management	₹ 9.39	DIAT
5.	Development of Polymer blend electrolyte for batteries with morphology optimization and improved ionic transport through experimental and computational techniques	Dr. T U Patro- PI	01 Year	Metallurgical & Materials Engg	₹ 8.94	DIAT
6.	Futuristic W Alloys and Composites	Dr. Bhaskar Majumdar - PI Dr. Shanmugasundram T. - Co-PI	03 Years	Metallurgical & Materials Engg	₹ 53.08	DRDO (ARMREB)
7.	Study of an Air Lift System for vertical transport of Sea Water Nodule Slurry	Dr. Sunil Chandel - PI Dr. DG Thakur- Co-PI Dr. TM Bhawe - Co-PI	02 Years	Mechanical Engg	₹ 34.49	Ministry of Earth Science
8.	Biophysical investigation on lipid-nanoparticle interactions in biometric lipid membranes	Dr. AVR Murthy - PI Dr. Suwarna Datar - Co-PI	02 Years	Applied Physics	₹ 10.00	DIAT

**32.5 AGENDA FOR DISCUSSION:****33.5.1 Extension of contingency facility to all other categories of M.Tech, MSc and PhD Students.**

Programme	Category	Remark
M.Tech	Self-Financed Category	At present, Contingency Grant is provided by DIAT ONLY to scholarship students (M.Tech & Ph.D):  Ph.D: Rs 15,000 per Year, & M.Tech: Rs 5,000 per Year  It is proposed to extend above facility to all students falling under categories listed here.
	Service Officers /DRDO: Self Sponsored	
	Foreign Students	
M.Sc.	All M.Sc programmes (excluding Sponsored Category: Services/Industry)	
Ph.D/ MS(by Research)	Internal Part time	
	Service Officers /DRDO: Self Sponsored	
	Foreign Students	

The item presented by Dr. T. U. Patro, Assistant Professor and Joint Registrar (I/c). He briefed the proposal. Further, the Academic Council in its meeting held on 19/12/2023 considered the item and recommended to the BoM for approval.

After detailed deliberations, the BoM **RESOLVED** to extend the contingency grant to all category students who are not eligible to get it from their employer unlike Service Officer / DRDO Scientists

[Action: JR (Acad) I/c]

**33.5.2 To consider and approve Budget Estimates for the year 2024-25.**

The Finance Committee in its 30<sup>th</sup> meeting held on 05/10/2023 considered the Budget Estimates of Rs.94.82 Cr for the F.Y. 2024-25 and recommended to modify the same to Rs. 72 Cr. approx, for the F.Y. 2024-25 for further examination. The Finance Officer presented the item before the BoM and briefed the proposal.

The BoM **RESOLVED** to approve the forecast budget estimates for the financial year 2024-25 as per Annexure-33.5.2

[Action: Finance Officer]

**33.5.3 Proposal to start MSc Tank Technology**

Prof. Shaibal Banerjee, Director, School of Defence Technology and Chairman PGC, presented the proposal before the BoM to start M.Sc. programme in Tank Technology, jointly by DIAT and Armoured Corps Centre and School (ACC&S), Ahmednagar (An Indian Army unit). He stated that only Indian Army sponsored candidates from ACC&S will be eligible for admission in this specialized programme. He further stated that ACC&S has expertise and required infrastructural facilities to conduct a Master's programme in Tank Technology in association with DIAT. The Board of Studies for the above programme was held on 24-11-2023 to frame syllabus for this programme as per UGC norms. Thereafter, the above agenda was discussed and approved in Post graduate Committee on 06-12-2023. Subsequently, Academic Council in it's meeting held on 19-12-2023 has recommended to introduce M.Sc. program in Tank Technology at DIAT in association with ACC&S. The financial requirements for various academic activities such as conduct of lectures and study tours will be borne by ACC&S. Teaching will be done by faculty members of DIAT and Service Officers of ACC&S.

The Dean (Acad) apprised the BoM about the importance of this programme to Armed Forces. He mentioned that starting of such programmes is as per the mandate of DIAT towards imparting to armed forces and will also help in NAAC, NIRF assessments.

The eligibility criteria for admission to the above M.Sc. programme was deliberated in the meeting. It was noted that Officers from various graduation streams (such as Engineering/Technology/Science/Arts) who have undergone Technical Training only shall be sponsored by Indian Army for this programme.

The BoM appreciated the proposal and **RESOLVED** to introduce MSc in Tank Technology.

[Action: Dean (Acad)]

**33.6 Any other item with the permission of the Chair.****33.6.1 Recognition of DRDO Scientists as Faculty members of DIAT(DU)**

The Dean (Acad.) presented the item before the BoM. It is proposed that those Scientists of DRDO who have PhD and are contributing to DIAT in customized courses or as joint supervisor for PhD be recognized and publicized as faculty members of DIAT(DU). There will be no financial burden for DIAT(DU).

The BoM discussed the proposal at length and **RESOLVED** to recommend the proposal to DRDO/GC for approval.

[Action: Dean (Acad)]

There being no other agenda items, the Secretary- BoM extended vote of thanks to members of Board for their active participation and attending the meeting. The meeting concluded with thanks to the Chair.

  
08/11/24

(Kamal Kumar Bajre)  
Registrar & Secretary-BoM

REVIEW OF EXPENDITURE FOR F.Y. 2023-24 AND FBE 2024-25

(Amt. in Crores)

Particulars	BE 2023-24 (Sanctioned)	Actual Expenditure till 21.09.2023	RE 2023-24	FBE 2024-25
(A) Capital Expenditure				
Capital Equipment P&M/OE/ Lab Equipment/ Furniture & Fixtures/ Computers/ Motor Vehicles etc.	16.00	9.83	19.92	40.00
Library (Books)	0.50	0.05	0.50	0.50
TOTAL (A)	16.50	9.88	20.42	40.50
(B) Revenue Expenditure				
Pay and allowances of DIAT Officers & DIAT Staff	27.00	12.57	27.75	31.82
Establishment Expenses	2.00	1.00	2.00	3.00
Academic Expenses	5.00	2.48	5.00	10.00
Administrative Expenses (Printing & Stationary, Fuel, Legal/Audit Fee & other Admin Exp., Repairs & Maintenance//Logistics/Security, Messenger & Hygiene & Sanitation Contracts etc.	5.50	3.10	5.50	7.00
Library Journals	2.00	0.31	2.00	2.50
TOTAL (B)	41.50	19.46	42.25	54.32
TOTAL (A+B)	58.00	29.34	62.67	94.82

*Viedyaark*  
--6/11/23  
( CA DR. VIDYA K.GARGOTE )  
Finance Officer & Member Secretary,  
Finance Committee, DIAT (DU)