

MEMORANDUM OF UNDERSTANDING

Between



National Institute of Advanced Manufacturing Technology, Ranchi

And



सत्यमेव जयते

Department of Higher Education
Ministry of Education
Government of India

For the Year

2023-24

MEMORANDUM OF UNDERSTANDING

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This Memorandum of Understanding (MoU) is being signed between

Department of Higher Education, Ministry of Education, Government of India (hereafter referred to as “MoE”) as the first party,

And

National Institute of Advanced Manufacturing Technology, Ranchi (hereafter referred to as “NIAMT”) as the second party,

with the objective to measure the performance of the Institution on key selected parameters against the targets set to improve the performance on the critical parameters of the organization.

This MoU has been structured into five parts:

Part I: Mission, Vision and Objectives

Part II: Exercise of Enhanced Autonomy and Delegation of Financial Powers

Part III: Performance Evaluation Parameters and Targets

Part IV: Facilitation/Assistance from MoE

Part V: Action Plan of Implementation and Monitoring of the MoU

PART – I: MISSION, VISION AND OBJECTIVES

1.1 Vision

"Accomplishing excellence in the technical education and act as repository and leader for disseminating state-of-the-art knowledge and expertise in the field of materials technology and other relevant/emerging branches of engineering and technology concomitant with industrial growth of the nation; at the same time maintaining and further strengthening its position as a leader in the areas of foundry technology and forge technology"

1.2 Mission

Commensurate with the vision the Institute aims at adopting and adapting an academic framework in conformance with knowledge driven sustainable development through the confluence of the underlying spirit of “**Make in India**”, “*Atmanirbhar Bharat*”, and



“National Education Policy – 2020 (NEP-2020)”. In this direction the Institute is pursuing necessary reforms in its academic framework as briefly delineated below: -

- Continuing and expanding the **access** to four-tier academic programs involving skill development in Foundry and Forge Technology and Undergraduate and Postgraduate programs in different engineering disciplines like Mechanical, Metallurgical, Computer, Manufacturing, Production & Industrial Engineering.
- Encouraging the **equity** in dissemination of knowledge by promoting skill development of women, tribal people, and local artisans for ensuring a better livelihood and employability.
- Ensuring **affordability** of the academic programs of the Institute for the wider section of the youth population by providing financial support and flexibility in language of instruction under a highly flexible, modular, multi-point-entry and multi-point-exit undergraduate, postgraduate and doctoral programme.
- Continuous enhancement of **quality of the education** and training in contemporary and advanced manufacturing technology areas with latest technical know-how; consultancy, and technical services; indigenization of technology through research & Development packages; offering the facility of documentation; information retrieval services and computer networking to MSMEs and other enterprises; collaboration with national and international industries/Universities/Institutions for development of education and research.
- Adopting the available technology for establishment of **accountability** in the process of imparting training, education, and research in consonance with the spirit embedded in the framework of **NEP-2020**.

1.3 Objective

To establish and to carry on the administration and management of the Institute, and in relation thereto: -

- Establish the training and academic framework of manufacturing technology as the superset of multiple knowledge domains (engineering, mathematics, science, and humanities) across the diploma, undergraduate, postgraduate and Research programs.
- Link the existing manufacturing potential of the country with emerging knowledge and techniques by adopting and adapting activities as of sustainable and circular economy.
- Eliminate language barriers in teaching and training
- Expand the scope of existing potential and infrastructure for skill development existing in the Institute
- Provide facilities for education and research in the areas related to advanced manufacturing in the form of full-time courses, short-term courses, and the like.
- Provide facilities for training of personnel from foundry industry from across the globe.
- Train suitably qualified personnel for industry in the emerging and advanced manufacturing techniques, design, and development.
- Award appropriate diplomas and certificates based on the standards laid down for the course.
- Guide and conduct applied research in the field of advanced manufacturing and to devise techniques called for Indian conditions.



- Institute and award fellowship, scholarships, prizes, and medals in accordance with the Rules and Byelaws.
- Confer honorary awards and other distinctions.

Part – II: EXERCISE OF ENHANCED AUTONOMY AND DELEGATION OF FINANCIAL POWERS

- II. 1. All powers delegated to autonomous institutes within the purview of MOE are available to the Board of Governors of the Institution (hereafter called the Board) as per the Memorandum of Association & Rules of the Institution.
- III. 2. Signing of any understanding MoU by the Institution with any other party including similar organizations abroad would be informed to the MoE and of such an understanding MoU entails any financial liability on Government of India, the approval of MoE will be taken before such signing.
- IV. 3. The Institution will ensure that the user charges/fees charged by it for its various courses recover the current cost of providing services with reasonable return on capital investment. Any deviation from the principle shall be recorded with reasons justifying the setting of user charges lower than the cost recovery norms. The user charges/fees/ sources of internal revenue generation will be reviewed by the Board of the institution at least once a year. This exercise should be completed before October 2022, the time by which the process for Union Annual Budget for 2023-24 is started by the Ministry/ Govt. of India. The rates of fees will be linked with appropriate price indices and will be reviewed at least every three years, with next review in 2022-23.
- V. 4. The institution shall follow the General Financial Rules, 2017 issued by the Department of Expenditure, Ministry of Finance, Government of India in all its financial transactions, including procurement of goods and services.
- VI. 5. The Institution shall adopt the Public Financial Management System (PFMS) for receipt of all funds from MoE/ Government of India and make all payments through the PFMS to the last mile as far as possible.
- VII. 6. The Institution shall send to the MoE any information required by it to satisfy any requirement related to Parliamentary Matter, R.T.I., Public Grievances or inputs to policy decision to be taken by the MOE within the time specified by the Ministry.
- VIII. 7. In addition to the above, any other delegation of powers needed will be taken up separately by the Institution with MOE.

PART – III: PERFORMANCE EVALUATION PARAMETERS AND TARGETS FOR 2023-24

- III. 1. In fulfillment of its obligations under the MOU, the institution undertakes to achieve certain levels of performance for the year 2023-24. The performance will be evaluated using the criteria listed at **Annexure - I**. The weights to be attached to each criterion and the criterion values corresponding to different performance ratings are also given therein. The overall score will be calculated through the formula given in the Annexure based on the scores obtained in each parameter.



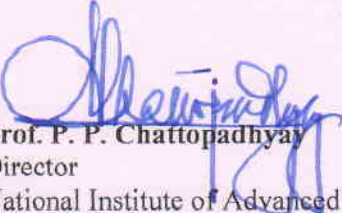
- IV. 2. There would also be a negative marking by which the overall score obtained through Annexure - I will be reduced based on penalties listed out in **Annexure - II**.
- V. 3. The Consolidated score would be arrived at by reducing the negative score obtained in Annexure - II from the overall score obtained under Annexure - I.
- VI. 4. The overall rating of the organization would be as given in **Annexure - III** based on the consolidated score obtained in Para III.3 above.

PART – IV: FACILITATION / ASSISTANCE FROM THE GOVERNMENT

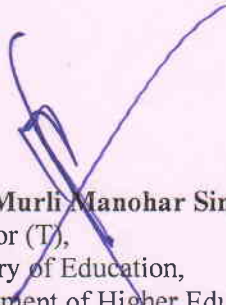
- IV. 1. The Institution has made the commitment of Performance Evaluation Targets based on certain assumptions in respect of release of grants from the Consolidated Fund of India and raising of other resources, including loan from HEFA for expansion of infrastructural facilities, which has a direct bearing on the performance of the institution committed in this MOU. The commitment of MoE and other possible sources of revenue generation are listed in **Annexure - IV**.
- V. 2. MoE will extend any other facilitation assistance like taking up the matters with the State Government concerned or any Ministry of the Union Government. as and when required.

PART – V: ACTION PLAN FOR IMPLEMENTATION AND MONITORING OF THE MOU

- V. 1. Performance Evaluation against MOU parameters shall be carried out every quarter and Monitored by the Institution.
- VI. 2. The performance evaluation shall be submitted to the Board on quarterly basis during the Board meetings for intonation. After the Board Meeting the same shall be sent to MoE along with the recommendations of the Board.
- VII. 3. A Joint review by the institution and the MoE shall be carried out within 90 days of completion of the financial year. The result of the Joint Review shall be placed before the Board and hosted prominently on the website of the institution.


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Director
National Institute of Advanced Manufacturing
Technology, Ranchi
निदेशक
Director

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National Institute of Advanced Manufacturing Technology, Ranchi-3


Shri. Murli Manohar Singh
Director (T),
Ministry of Education,
Department of Higher Education,
Government of India

एम. एम. सिंह/M. M. SINGH
निदेशक/Director
भारत सरकार/Govt. of India
शिक्षा मंत्रालय/Min. of Education
उच्चतर शिक्षा विभाग/D/o Higher Education
नई दिल्ली/New Delhi

Performance Evaluation Parameters for 2022-23) and Targets for 2023-24

Sl.	Criteria	Existing Levels	Target ed Level	Actual/Achieved (FY 2022-23)	Target ed Level	Unit	Weightage	Excellent	V. Good	Good	Fair	Poor
		(X)	(Y)		(10Pts)			(8 Pts)	(6 Pts)	(4 Pts.)	(2 Pts)	
		[Average of the year 2020-21, 2021-22 and 2022-23]	FY 2022-23		[Reached the target given in Col. 4]			[Less than Y but reached Figure $=(X+0.8(Y-X))$]	[Less than Figure in Col. 8 but reached Figure $=(X+0.6(Y-X))$]	[Less than Figure in Col. 9 but reached Figure $=(X+0.4(Y-X))$]	[Less than Figure $=(X+0.4*(Y-X))$]	
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)		
1	Student Strength						(40)	(40)				
1.1	Adv. Diploma Students Intake	115	115	115	115	No.	10	10				
1.2	UG Students Intake	197	150	290	290	No.	10	10				
1.4	PG Students Intake	136	146	146	146	No.	10	10				
1.5	Ph.D Students Intake	15	15	15	15	No.	5	5				
1.6	Teachers Student Ratio	1:18	01:11	01:20	01:17	Ratio	5	5				
1.7[A]	First rank of JEE mains admitted	36349	35000	17987	15000	No.	-					



1.7[B]	Last Rank of JEE Mains Admitted	73103	65000	81642	80000	No.	-					
2	Faculty Position						(10)	(5.7)				
2.1	% of Faculty Position (Regular) filled	57.14	100%	53.57	77	%	10				5.7	
3	Research and Professional Practice						(20)	(9.88)				
3.1	Publication per Faculty	1.10	2	1.2	2	No.	5					2.75
3.2	Quality of Publications per Faculty	0.35	2	0.47	2	No.	5					0.88
3.3	Patents Filled per Faculty	0.01	0.04	0.04	0.05	No.	5					1.25
3.4	Patents granted or Licensed per Faculty	0.00	0	0	0	No.	5	-	-	-	-	-
3.5	Total Revenue acquired by the Institute (as distinct from to individual faculty) through research/Consultan cies	24.74	20	5.5	20	Rs.	5	5				



4	Graduation Outcome							(20)	(11.83)			
4.1	Combined % Higher studies enterpreneures session	UG	94.67	100.00 %	84	100	%	4	3.78			
		PG	40.00	100.00 %	78	100	%	4				1.6
		Ph.D	0.00	0	0	0	%	-	-	-	-	-
4.2	Median Salary achieved in Placement	UG	6.34	9	7.68	9	Rs.(i n lakh)	4				2.81
		PG	4.19	9	4.12	9	Rs.(i n lakh)	4				1.86
		Ph.D	0.00	0	0	0	Rs.(i n lakh)	-	-	-	-	-
4.3	No. of Ph. D Students graduated		2.67	6	7	2	No.	4				1.78
5	Financial Parameters							(16)	(10.63)			
5.1	% of total cost recovery by means of Fees and other resources, except MoE funds (Sum of Item 3 in annexure IV)		10.99	13	11.96	13	%	5	4.22			
5.2	Incremental growth in amount of Corpus fund as on 1st July of the year compared to 1st		1.67	13	5	10	%	3				0.38



	july of previous year												
5.3	% Utilization of funds from MOE w.r.t BE/RE	83.33	100	86	100	%	4	3.33					
5.4	Gross IRG	301.64	400	499.93	500	Rs.(in lakh)	2	1.5					
5.5	IRG per Student	0.36	0.6	0.56	0.6	Rs.(in lakh)	2		1.2				
6	Outreach and Inclusivity						(15)	(7.13)					
6.1	Percent of students from other countries	0	0	0	0	%	-	-	--				
6.2	% of girls students	7	15	9.70	15	%	5			2.33			
6.3	% of Faculty from SC, ST, OBC,EWS	29.47	59.9	40.00	50	%	5			2.45			
6.4	% of Students from SC, ST, OBC,EWS	23.48	50	21.85	50	%	5			2.35			
6.5	No. of Cases reported related to sexual harasment	0.00	0	0	0	No.				-			
6.6	No. of Raging cases reported	0	0	0	0	No.				-			
7	Infrastructure Creation (where applicable, in other cases weightage will be zero)						(10)	(2.85)					



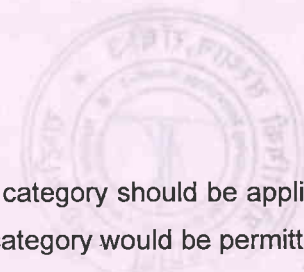
7.1	Infrastructure Created during the year (in Sq.M)	5711	20000	1,452	3779	Sq. Mtr.	10					2.85	
8	Overall Performance				290		(10)	(7.24)					
8.1	NIRF Ranking	138	100	150	100	Rank				7.24			
9	Industry Exposure						(10)	(10)					
9.1	Department having 2 or more tie-up with Industry (in %)	100.0	100	100	100	%	5	5					
9.2	Internship % of students	100	100	100	100	%	5	5					
	Total	Total of overall score						151	105.26				
Overall Score of NIAMT, Ranchi= (105.25*100)/151 = 69.70%													

Over Score of an Institution would be calculated as follows:

= Sum (Score of each Parameter*Parameter weightage) *100/Total weightage

1. If any parameter is not applicable to any Institution, the same may be substituted/modified/deleted from this list. The overall weightage obtained by addition column 6, will be the denominator for calculation of %performance.
2. Existing level will be decided by taking the average values of last three years from 2020-21, 2021-22 and 2022-2023, except in case of NIRF, where it will be the Rank in 2022-23. If the 2022-23 parameter is not yet available at the time of signing of MoU then average of two years 2020-21 and 2021-22 would be taken. If the Institution did not participate of NIRE Ranking in 2022-23, a notional ranking of 500 would be given for the year 2022-23 for calculation process.





3. The Institution and the Ministry would arrive at an agreement on which NIRF Ranking category should be applied for the Institution and then the evaluation would be done on performance in that category only. A change in category would be permitted during the year only if the chosen category is not being taken up by NIRF for categorization in the year 2022-23.
4. For parameters like ragging cases, anti-sexual harassment cases and NIRF ranking, a lesser value than existing level would be taken as successful achievement and achievement parameter would be accordingly modified.
5. Score given on each parameter would be as follows: Excellent-10; Very Good-8; Good-6; Fair 4; Poor-2.
6. If an Institution does not participate in NIRF Ranking exercise in the current year, the weightage would remain at 20 for the NIRF parameter and the Institution would get a zero score on it.
7. Overall Score of an Institution would be calculated as follows: $\text{Sum (Score of each Parameter} \times \text{Parameter weightage) } \times 100 / \text{Total weightage}$.



Sl. No.	Parameter	Weightage	Score	Weighted Score
1	Teaching Quality	20	10	200
2	Learning Quality	20	10	200
3	Research Quality	20	10	200
4	Infrastructure	20	10	200
5	Outcomes	20	10	200
6	Peer Review	20	10	200
7	Employability	20	10	200
8	Leadership	20	10	200
9	Overall	20	10	200
10	Total	200	100	2000

PARAMETERS FOR NEGATIVE MARKINGS

There will be negative marking from the overall score, obtained in Annexure I, as follows:

Summary Report on Negative Marking for National Institute of Advanced Manufacturing Technology, Ranchi (See below for calculation refs) = 6.5) %

Point (I)	:	0%
Point (II)	:	3%
Point (III)	:	4%
Point (IV)	:	0%
Point (V)	:	0.5%
Point (VI)	:	0%
Point (VII)	:	0%
Point (VIII)	:	0%

- i) Laying of Annual Report in Parliament
 - a. If Annual Report of 2021-22 submitted to MoE before the start of Winter session, 2022 – Less 0%
 - b. If Annual Report of 2021-22 submitted to MoE after 01/01/2023 but before 31/3/2023 – Less 1%
 - c. If Annual Report of 2021-22 not submitted to MoE by 31/3/2023 – Less 3%
- ii) Submission data of AISHE
 - a. If submitted in 2021-22 within the last date fixed for the same – Less 0%
 - b. If submitted in 2021-22 but after last date fixed for the same but before 31.03.2022 – Less 1%
 - c. If not submitted in 2021-22 by 31.3.22 – Less 3%
- iii) Holding of Meeting of Board at least once a quarter (Other Institutions may mention their own Management bodies)
 - a. If Board meeting held once in a quarter, with at least 4 meeting in a year – less 0%
 - b. If Board meeting not held in any quarter, but 4 meetings held in a year-less 1% for each quarter when Board meeting not held
 - c. If total number of Board Meetings held in year less than 4 - less 4%. Quarters for this parameter mean the periods: Quarter 1: April-June; Quarter II: July-September, Quarter III: October-December; Quarter IV: January – March.
- iv) Counseling system in the Institution.
 - a. When a robust counseling system exists and there is not suicide or attempt to suicide – less 0%
 - b. When no robust system exists but there no suicide or attempt to suicide – 1%



PARAMETERS FOR NEGATIVE MARKINGS

- c. When a robust counseling system exists but there is at least one suicide or attempt to suicide – less 3%
- d. When no robust counseling system exists but there is at least one suicide or attempt to suicide – less 4%
- v) Signing of MoU
- a. When MoU for 2022-23 signed before 31/03/2022 – less 0%
- b. When MoU for 2022-23 finalized by MoE and Institution jointly but not signed by 31/03/2022 – Less 0.5%
- c. When MoU for 2022-23 neither finalized by MoE and Institution jointly not signed – Less 2%
- vi) Vigilance cases
- a. Where disciplinary cases ordered by CVC – less 1% per case
- b. Where criminal prosecution or CBI enquiry ordered by CVC – Less 2% per case. For this purpose, each case would mean each incident on which an enquiry has been done by CVC
- vii) Audit Para
- a. If less than 50% para /ATN/audit follow up, replied as per audit requirement – less 2%
- b. If less than 100% para/ATN/audit follow up, replied as per audit requirement – less 1%
- c. If special audit conducted due to major financial irregularities – less 2%
- viii) LIMB Data
- a. Upto 50% of Court cases data filled and updated in LIMB – less 2%
- b. More than 50% but less than 100% of Court cases data filled and updated in LIMB – less 1%



Annexure III

RATING OF INSTITUTION BASED ON CONSOLIDATED SCORES

Performance of the Institution would be graded based on overall score less the negative score to get the Consolidated Score. The performance based on the consolidated score would be as follow:

Consolidated Score		Rating
More than	Equal to or less than	
90	100	Excellent
70	90	Very Good
50	70	Good
33	50	Fair
Less than or equal to 33		Poor

Consolidated Score of NIAMT, Ranchi & Rating

Total Score achieved by NIAMT	=	$(105.25*100)/151 = 69.70$ (Annexure I)
Less negative Score of 6.5%	=	7.5 (Annexure II)
Consolidated Score	=	$69.70 - 7.5 = 62.2$
Rating	=	Good



National Institute of Advanced Manufacturing Technology, Ranchi

Annexure - IV of MoU between NIAMT and MoE for 2023-24

Financial Commitment of MoE and Other Sources of Revenue

1. The MoE has allocated the following fund to be released through Consolidated Fund of India in the year 2023-24:

Allocation of Budget Estimate (BE): (in Crores)

OH-31	:	17.00
OH-35	:	09.00
OH-36	:	27.00
<u>Total</u>	:	<u>53.00</u>

2. Funds from HEFA Loan:

Head of Account	Amount in Lakh
Total Sanction	3082
Funds received till 2022-23	1750
Funds Planned for 2022-23	1332

NIAMT will raise funds from other sources as follows:

Head of Account	Amount in Lakh
User charges in form of Fee	480
User charges other than Fee	20
Alumni Donation	Nil
Extra Mural Funding from other Departments/Ministries of Government of India.	Nil
Extra Mural funding from other sources	Nil
Other resources not covered above	Nil
Total	500

