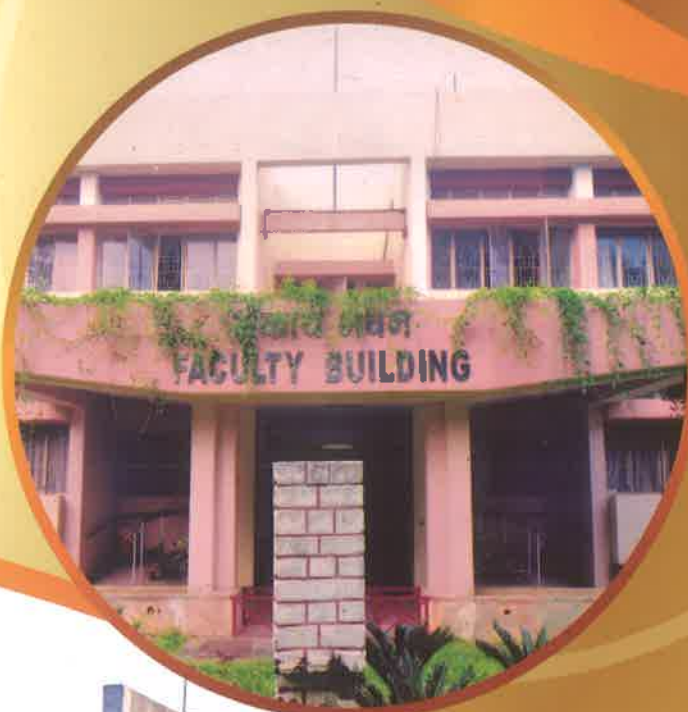




ANNUAL REPORT 2020-21



NATIONAL INSTITUTE OF FOUNDRY & FORGE TECHNOLOGY

A Centrally Funded Technical Institute under MHRD (Govt. of India)

Hatia, Ranchi - 834 003 (Jharkhand) INDIA | www.nifft.ac.in



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C O N T E N T

Sl. No.	Chapter	Page No.
1	Preamble	5
2	Board of Governors	7 - 8
3	Administrative & Finance Committee	8
4	Standing Building Committee	9
5	Academic Council	10
6	Department of Foundry Technology	13 - 14
7	Department of Forge Technology	15 - 16
8	Department of Mechanical & Manufacturing Engineering	17 - 21
9	Department of Materials & Metallurgical Engineering	22 - 23
10	Department of Applied Sciences and Humanities	24 - 27
11	Academic Activities	28 - 42
12	General Administration	43
13	Library and Documentation Centre	44
14	NIFFT Hostel	47
15	Industrial Liaison Cell	48
16	NIFFT Student's Gymkhana	50
17	Hindi Cell	51
18	Annual Accounts & Audit Report	57 - 112



P R E A M B L E

Globally manufacturing has proved its importance in inclusive economic growth. In pursuit of the excellence in manufacturing, National Institute of Foundry and Forge Technology established in 1966, is conducting training, education and research with a particular focus on mechanical manufacturing in line with the evolving demand in Industries. At its inception, the Institute introduced Advance Diploma Programms in Foundry Technology and Forge Technology, followed by two B. Tech and four M.Tech Programms. Since inception, NIFFT has maintained the character of a National Institute in administrative structure, recruitment of faculty and admission of students. Over the years, NIFFT has earned widespread recognition in training, education, research and consultancy in areas related to manufacturing. Alumni of the Institute have played a leading role not only in foundry and Forge industries, as engineers and entrepreneurs, but also in IITs, IIMs, PSUs, and UPSC cadres.

With its reputation in training and education in primary manufacturing processes, NIFFT is rightly positioned to bridge the knowledge gap between traditional and Advanced Manufacturing. The character of a National Institute, as inherited by NIFFT and its very intimate interface with the Industries are also the supportive factors for future growth of the Institute.

In the recent past, two committees, constituted by MHRD under the chairmanships of Shri Baba Kalyani and Professor Amitabh Ghosh, have recommended elevation of NIFFT to the centre of Excellence in Advanced Manufacturing. The experts unanimously agreed that the Institute has the potential to elevate the present primary manufacturing centric programme to the level of Advanced Manufacturing Technology maintaining its current focus in the domain of mechanical science.

Accordingly, the Institute has taken a serious initiative to elevate its academic and physical infrastructure based on a clearly defined roadmap to render its service towards excellence in Manufacturing in consonance with 'Make in India' programme.

21st June



INTERNATIONAL YOGA DAY

Yoga takes you into the present moment. The only place where life exists.

National Institute Of Foundry And Forge Technology, Ranchi



BOARD OF GOVERNORS

1	Shri Sham Arjunwadekar Chairman National Centre for Technical Services Institute of Indian Foundrymen, Pune	Chairman
Representatives from Government of India		
2	Shri Madhu Ranjan Kumar, Joint Secretary (DL&BP) Ministry of Human Resource Development, Department of Higher Education, Govt. of India,	Member
3	Smt. Darshana M. Dabral, JS & FA Ministry of Human Resource Development Department of Higher Education, Govt. of India	Member
Representatives of Ministry of Industry Government of India		
4	Mohd. Zakaria Khan Yusufzai Senior Development Officer (Engg.) Department for Promotion of Industry and Internal Trade Ministry of Commerce and Industry	Member
Representatives of All India Council for Technical Education		
5	Professor M.K. Tiwari Department of Industrial Engg. and Management Indian Institute of Technology, Kharagpur	Member
Representatives of Industries Including Public Enterprises		
6	Vacant	Member
7	Vacant	Member
8	Shri Pradeep Goyal Founder Chairman & Managing Director, Pradeep Metals Limited, Mumbai	Member
9	Shri Sachin B. Sabnis Managing Director Belgaum Ferrocast India Pvt. Ltd. (BFPL)	Member
10	Professor Markrand Shrikishna Kulkarni Department of Mechanical Engineering, Indian Institute of Technology, Bombay	Member
Representatives of Technical Institutes/Engineering Profession		
11	Dr. Pallab Banerji Professor Materials Science Centre Indian Institute of Technology Kharagpur	Member
12	Professor B.S. Murthy Department of Metallurgical and Materials Engineering NAC Rd. Indian Institute of Technology, Madras	Member



Co-opted members by the Board		
13	Professor Amol A Gokhale Department of Mechanical Engineering (Manufacturing Group) Indian Institute of Technology, Bombay	Member
14	Professor D. Ravi Kumar Department of Mechanical Engineering Indian Institute of Technology, Delhi	Member
Co-opted members From Faculty		
15	Professor N.K. Singh Department of Forge Technology, NIFFT	Member
16	Professor K.K. Singh Department of Foundry Technology, NIFFT	
17	Shri U.C. Prasad Registrar, NIFFT	Member
18	Professor Partha Protim Chattopadhyay Director, NIFFT	Member Secretary

ADMINISTRATIVE AND FINANCE COMMITTEE

1	Shri Sham Arjunwadekar Chairman National Centre for Technical Services Institute of Indian Foundrymen, Pune	Chairman
2	Shri Madhu Ranjan Kumar Joint Secretary (DL&BP) Ministry of Human Resource Development, Department of Higher Education, Govt. of India	Member
3	Smt. Darshana M. Dabral, JS & FA Ministry of Human Resource Development Department of Higher Education, Govt. of India	Member
4	Professor N. K. Singh Department of Forge Technology, NIFFT	
5	Professor K.K. Singh Department of Foundry Technology, NIFFT	Member
6	Shri U.C. Prasad Registrar, NIFFT	
7	Professor P P Chattopadhyay Director, NIFFT	Member Secretary

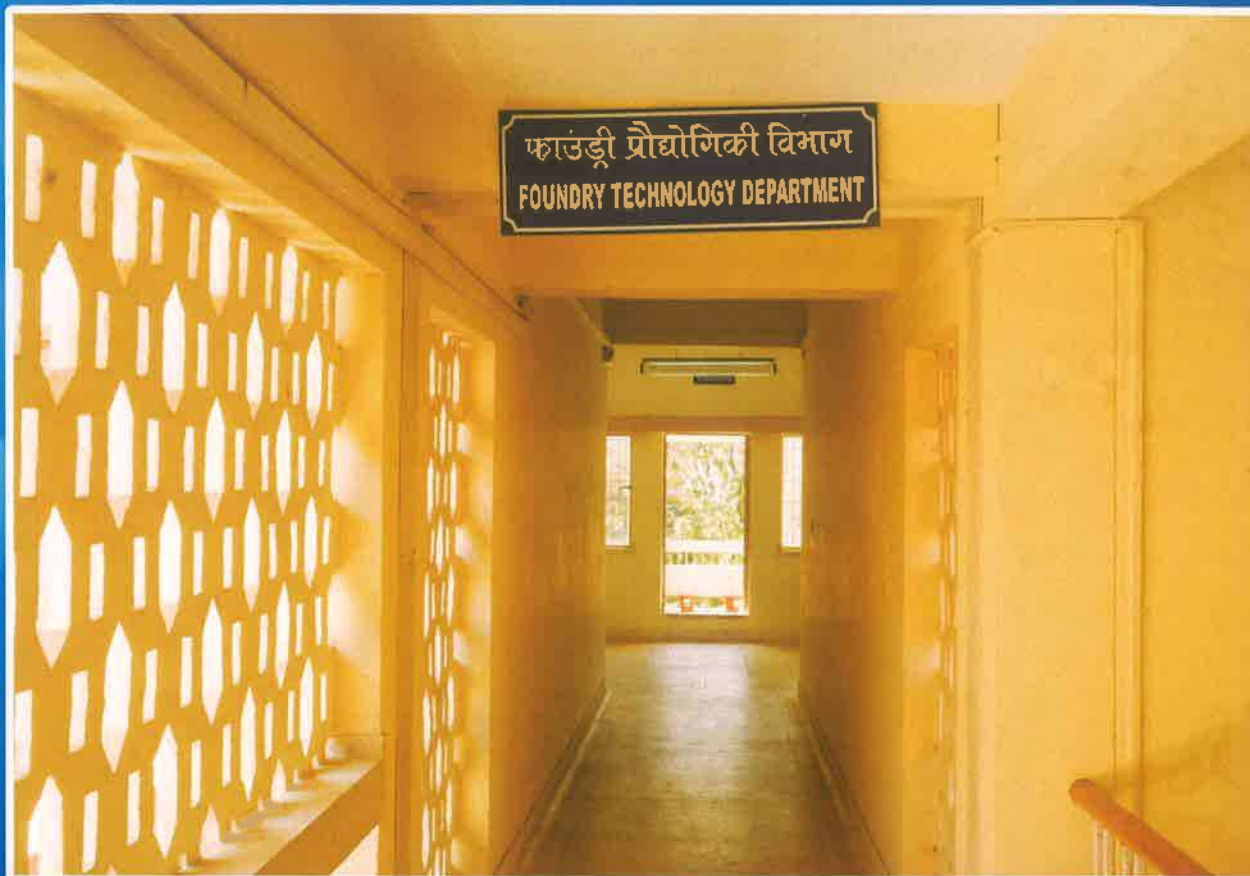
STANDING BUILDING COMMITTEE

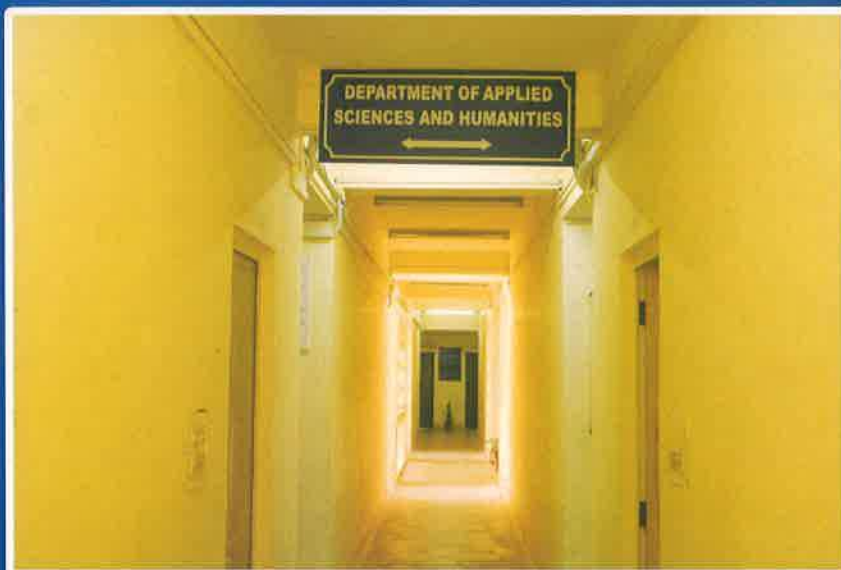
1	Professor Partha Protim Chattopadhyay Director, NIFFT, Hatia, Ranchi-03	Chairman
2	Shri Madhu Ranjan Kumar, Joint Secretary (DL&BP) Ministry of Human Resource Development, Department of Higher Education, Govt. of India	Member
3	Professor Debasis Roy, Chairman, Civil Construction and Maintenance, Indian Institute of Technology, Kharagpur	Member
4	Shri S. Bandyopadhyay A.M, Electrical Engineer Heavy Engineering Corporation Limited Dhurwa,Ranchi-834004	Member
5	Shri Suman Kumar General Manager NBCC, 4th Floor, 401, Mangal Tower Old H.B. Road, Ranchi	Member
6	Shri Amrendra Kumar Singh General Manager (Civil) MECON Ltd. Ranchi-834002	Member
7	Professor N .K. Singh Member , BoG Department of Forge Technology, NIFFT,Ranchi	Member
8	Professor R.K. Ohdar Dean (P&D) Department of Forge Technology, NIFFT, Ranchi	Member
9	Shri U.C. Prasad, Registrar, NIFFT, Hatia, Ranchi	Member



ACADEMIC COUNCIL

1	Dr. P.P. Chattopadhyay, Director, NIFFT, Ranchi	Chairman
2	Vice Chancellor, Jharkhand University of Technology or Nominee	Member
3	Controller of Examinations, Jharkhand University of Technology	Member
4	Vice Chancellor, Ranchi University or Nominee	Member
5	Professor Anand Mukut Tigga, Department of Production Engineering	Member
6	NIT, Jamshedpur	Member
7	Professor N. K. Singh, HOD (Forge Tech.)	Member
8	Professor Arvind Pandey, HOD(DASH)	Member
9	Dr. Amitesh Kumar, HOD (Foundry Tech.)	Member
10	Dr. A. K. Sood, HOD (ME)	Member
11	Dr. D. Roy, HOD (MME)	Member
12	Professor Sanjay Kumar, NIFFT, Ranchi	Member
13	Professor B. K. Chakraborty, NIFFT, Ranchi	Member
14	Professor A.K. Singh, NIFFT, Ranchi	Member
15	Professor A. Mondal, NIFFT, Ranchi	Member
16	Professor P. Talukdar, NIFFT, Ranchi	Member
17	Professor K.K. Singh, NIFFT, Ranchi	Member
18	Professor R.K. Ohdar, NIFFT, Ranchi	Member
19	Professor A. K. Pathak, NIFFT, Ranchi	Member
20	Professor Nandita Gupta, NIFFT, Ranchi	Member
21	Professor S. R. Kumar, NIFFT, Ranchi	Member
22	Professor Anil Kumar, NIFFT, Ranchi	Member
23	Professor Manoj Kumar, NIFFT, Ranchi	Member
24	Professor Vijay Toppo, NIFFT, Ranchi	Member
25	Professor B.K. Jha, NIFFT, Ranchi	Member
26	Professor B. Kumar, Dean (Academic)	Member Secretary





DEPARTMENT OF FOUNDRY TECHNOLOGY

About Department:

Foundry Technology Department came into existence in 1966 at the time of inception of Institute. Department offers Advanced Diploma Course(ADC) in Foundry Technology and jointly M.Tech in Foundry-Forge Technology Foundry Technology Department provides technological support as consultancy, trouble shooting work, development of latest technology, outreach programme like refresher courses, unit based programme in the premises of institute as well as at the sight of industry and research to Foundry and allied industries. In order to be competent with the present situation of cutting edge technology, Foundry Department has geared up noticeably and capable in establishing latest areas research in Foundry Technology.

FACULTY :

1	Dr. A. K. Singh B.E., M.Tech., PhD(Ranchi University)	Professor
2	Dr. K. K. Singh, B. Sc. Engg. (Met.), M. Tech. (Met. Engg.), Ph.D. (I. I. T. Kanpur), LMIFO, LMIIM, FM Institution of Engineer	Professor
3	Dr. Nandita Gupta B.E. Mechanical , PD. Engineering(Ranchi University) MIIF, LMIIM, FIEI	Professor
4	Dr. Amitesh Kumar B.E., M.Tech., Ph.D. (I. I. T. Kharagpur), MIIF, LMIIM, LMIFO	HOD & Associate Professor
5	Dr. Himanshu Khandelwal B.Tech, M.Tech., Ph.D. (I. I. T. Bombay)	Assistant Professor

ACTIVITIES:

Academic Activities:

Number of subjects offered by the department of M.Tech , B. Tech and ADC level are :

M.Tech.: 08

B. Tech : 08

ADC : 11

Faculty members of the department were involved in guiding Seminars and Projects of M. Tech., B. Tech., and Advanced Diploma Course besides their normal classes for long term courses.

Ph.D Ongoing:

Number of Ph.D. Scholars - 3



Research, Consultancy and Industrial Outreach Activities

1. Md. Salim Ansari, Amitesh Kumar, Kamlesh Kumar Singh & B.S. Manjunath, Simulation of Shrinkage/Voids Formation in Lead Casting And Its Experimental Validation. International Journal of Mechanical and Production Engineering Research and Development (IJMPERD) ISSN (P) 2249-6890, ISSN (E) : 2249-8001, Vol. 10, Issue 3,, Jun 2020, 3785-3794.
2. 4 days online course on Examination Reforms organized by AICTE: Role: Participation Certificate : Dr. Himanshu Khandelwal.
3. Nandita Gupta, Narayan Shukla, Ruhit Agarwal "Improvement in Mechanical and Metallurgical Properties of Metal Matrix Nano Composit" presented in EASCON 2020, Jointly organized by Indian Institute of Foundrymen Kolkata Chapter and Tata Motors. 10-11 January Hotel Ramada, Jamshedpur.
4. Ganesh Vidyarthi, Nandita Gupta, "Development of water soluble cores for investment casting- A Review published in "Technical Frontiers ""Indian Engineering Exports" January 2020 Page 48-51.
5. Ganesh Vidyarthi, Nandita Gupta, "A Study of ceramic core for investment casting" Accepted for presentation in ICFTMME-2020 international Conference on future Trends in Materials and Mechanical Engineering SRM Institute of Science and Technology Delhi NCR Campus, U.P. India, November 6-7, 2020.
6. Rakesh P S. Nandita Gupta, Rajeev Kumar Singh. "Application of Residence Time Distribution Analysis for Flow Optimization in geometrically modified Stab Caster Tundish" under review for publication in Defence Science Journal.

Administrative Assignments:

1.	Dr. K. K. Singh	Dean Student Affairs Chairman ILC Chairman NIFFT Niwas
2.	Prof. A. K. Singh	Chairman Library Committee
3.	Dr. .Amitesh Kumar	Member Anti-ragging Committee Member of Library committee HOD Foundry Technology Deptt.
4	Dr. Himanshu Khandelwal	Associate Dean (ADC) <ul style="list-style-type: none">• Member ADC Tabulation Committee• Course Coordinator PGCSM• Nodal Officer - PR agency of for NIFFT• Social Media Champion• Member, Committee to prepare SRS of Website• Member, Bid Opening Committee



DEPARTMENT OF FORGE TECHNOLOGY

About Department:

Department of Forge Technology was created in 1966 in which Advanced Diploma Courses (ADC), in Forge Technology was offered to provide trained manpower in the primary metal processing industries. In 1985, M Tech program was introduced with the specialization of foundry and forge technology. Subsequently in 1991, two B Tech programs, one in Metallurgical and Materials Engineering and other in Manufacturing, were introduced to reinforce the core framework of forging technology. In order to be competent with the present situation, the department grew noticeably and established new areas of research in forging technology. The department is having competent and highly qualified faculty members.

FACULTY :

1	Dr. N. K. Singh, B.Sc. Engg. (Mech.), M. Tech. (Foundry & Forge Tech.), Ph.D. (Ranchi University)	Professor & HoD
2	Dr. P. Talukdar, B.E. (Met.), M.E. (Met. Engg.), Ph.D. (Jadavpur University)	Professor
3	Dr. R. K. Ohdar, B.E. (Ind. Engg.), M. Tech. (Foundry & Forge Tech.), Ph.D. (IIT Kharagpur)	Professor
4	Dr. Manoj Kumar, B.Sc. Engg. (Mech.), M. Tech. (Foundry & Forge Tech.) Ph.D. (IIT Kanpur)	Professor
5	Mr. Vineet Chak B.Tech (Mech.) M. Tech (IIT Rorkee)	Assistant Professor
6	Dr. Ajit Kumar Pramanik B.Tech (Mech.), M. Tech (IIT Roorkee), Ph.D (Jadavpur University)	Assistant Professor
7	Dr. Deepak Kumar B.Tech (Mech.) M. Tech (AMU Aligarh), Ph.D. (IIT Rorkee)	Assistant Professor
8	Dr. Kulkarni Rahul Ramesh B.E. (Mech.), M.Tech (NITK), Ph.D. (IIT Bombay)	Assistant Professor

ACTIVITIES

Academic Activities:

Number of subjects offered by the department:

Name of Course	No. of Subjects Offered
B. Tech. Course (ME & MME)	7
M. Tech. Course (Foundry-Forge & Mfg. Engg.)	6
A.D.C. (Foundry Tech. & Forge Tech.)	9



Research, Consultancy and Industrial Outreach Activities

1. Multi Response Optimization of the Green Moulding Process using Grey Taguchi Method”by Archana Kumari : Ajay Murai : Rajkumar Ohdar ; Umesh Prasad.
2. International Conference on Computer Science. Engineering and Application (ICCSEA) : Year : 2020 [Conference Paper] Publisher IEEE.
3. Dr. Manoj Kumar, M Prithivi Raj and Dr. A.K. Pramanik” Yield improvement in hot forging of differential spider”in Journal Materials Today : Proceedings 26(2020) 3017-3115.
4. Participated on the 1 week instructor Led Live Online Faculty Development Program on Blockchain Technology held during 06th-10th July 2020, Organized by Finland Labs (A Unit of Revent Technology Pvt. Ltd.) in Association with National Social Summit. IIT Roorkee.
5. Participated in Five day online faculty development programme (FDP) on “Recent Advances in Process Metallurgy”organized by Department of Metallurgical Engineering, SoE in association with ASM International USA India chapter and IIM Raigarh Chapter during 13-17 July 2020

Administrative Assignments:

Faculty members of the department were engaged in various administrative activities.



DEPARTMENT OF MECHANICAL & MANUFACTURING ENGINEERING

About Department:

Department established in 1985 as Production Engineering Department, and was renamed as Department of Manufacturing Engineering in 1991. The department started the M. Tech. (Manufacturing Engineering) programme in 1991, followed by the B. Tech. (Manufacturing Engineering) programme in 1992 and PhD programme in 2006. The degrees pertaining to all programmes are awarded by Ranchi University, Ranchi. From year 2020-21 B-tech programme in mechanical engineering started and the department has been renamed as Department of Manufacturing & Mechanical Engineering.

The department attracts a diverse set of talented students. The curriculum designed is suitable for overall development of Knowledge which helps the students to become industrial and academic leaders. Apart from learning the basic technical concepts, the students are open to avail various elective courses. The department has some finer facilities matching with the best technical institutes in India, to train the undergraduate and postgraduate students, and to enable them to handle the ever challenging needs of technical excellence in all areas of manufacturing engineering. The department has the following laboratories: computer, CAD/CAM/CAE, FMS, metrology, machining, pattern shop and welding. Some new laboratories, such as fluid mechanics and mechanics of solids, etc. are under development.

FACULTY :

1	Dr. Sanjay Kumar B.Tech. (Met.), M.E.(Mech.),Ph.D., MIIF	Professor
2	Dr. A. Mandal B.Tech. (Mech.), M.Tech.(Prod.),Ph.D., MIIF	Professor
3	Dr. A. K. Pathak B.Sc.Engg.(Mech.), .Tech.(Mech.),Ph.D.,MIIF,MISTE ,MIIM	Professor
4	Dr. K. K. Verma M.Sc. (Maths.), M.Phil. (Applied Maths.), MIIF	Associate Professor
5	Dr. Vijay Toppo B.Sc.Engg.(Mech.), M.Tech.(Mfg.Engg.), PhD, MIIM, MIIF	Professor
6	Dr. G. Rajamohan B.E.(Mech.),M.E.(Mfg.Tech.),PhD, MIE	Associate Professor
7	Dr. A. K. Sood B.E.(Mech.),M.E.(Design.), Ph.D	Associate Professor& HOD
8	Dr. V.M.S. Hussain B.E.(Mech.),M.E.(Prod.), MIIF, Ph.D	Assistant Professor
9	Dr. Ratnakar Das AMIE (Mech.), M.E. (Prod.), Ph.D. (M.E.)	Assistant Professor
10	Dr. Sambit Kumar Parida B.E. (Mech.), M.Tech.(M.E.), Ph.D.	Assistant Professor



11	Mr. Anand Mohan Murmu B.Tech. (Prod.), M.Tech. (Mfg.Sc. &Engg.)	Assistant Professor
12	Mr. Subrato Kumar Soren B.E. (Mech.), M.E. (Thermal Engg.)	Assistant Professor
13	Dr. Jagesvar Verma Ph.D(V.N.I.T, Nagpur)	Assistant Professor
14	Dr. Umesh Khandey Ph.D(IIT Delhi)	Assistant Professor
15	Dr. Aruna Thakur Ph.D(NIT Rourkela)	Assistant Professor

ACTIVITIES

Academic Activities:

Number of subjects offered by the department:

Name of Course	No. of Subjects Offered
B.Tech. (M.E. & M.M.E.)	30
M.Tech. Courses (F.F.T.&M.E.)	12
A.D.C.(Foundry Tech. & Forge Tech.)	03

A. Workshop / online webinar

Sl. No.	Topic of webinar	Date	Convener	Number of participants
1.	Digital Transformation with Industrial Internet of Things & Augmented Reality	04/07/2020	Dr. Anoop Kumar Sood	78
2	New Generation Advanced Welding Techniques and Career Opportunities	08/07/2020	Dr. Jageshwar Verma	43

B. Software training

Sl. No.	Software	Date	
		From	To
1.	Basics of ANSYS Mechanical	06/07/2020	09/07/2020
2.	Basics of ANSYS CFD (Fluent)	13/07/2020	16/07/2020
3.	Introduction to MATLAB Simulink and Toolboxes	15/07/2020	16/07/2020

A. Training Course

- Successfully completed 11 week online course.
Course :Mechine Learning.
Conducted by Prof. Andrew nag. Stanford University and offered through Coursera.

B. Research publications :**SCI Journal**

1. Application of the combined ANN and GA for multi-response optimization of cutting parameters for the turning of glass fiber-reinforced polymer composites.

Journal : Mathematics

DOI : 10.3390/math8060947

Scopus Journal

2. Feasibility of FDM-electroplating process for EDM electrode fabrication.

Journal : Materials Today: Proceedings

DOI : 10.1016/j.matpr.2020.01.099

M. Tech supervised : 02 (continuing). 06 completed in earlier academic sessions.

PhD Supervision (Ongoing) : 03 (at NIFFT)**PhD thesis supervision :**

Awarded : 01 (The registration of the candidate was at Kalinga Institute of Industrial Technology (Deemed to be University), Bhubaneswar. Dr. Ratnakar Das was main Supervisor from NIFFT and Prof. A.K. Sahoo as co-supervisor from KIIT).

Thesis submitted : 01 (The registration of the candidate is at Kalinga Institute of Industrial Technology (Deemed to be University), Bhubaneswar. Dr. Ratnakar Das acts as main Supervisor and Prof. B.C. Routara as co-supervisor from KIIT). The thesis has been submitted on 14th July, 2020)

Research Publications :

Total Publications : Journal : 24 Conferences 13 : Book Chapter :01

Projects / Seminar/ Conference/ Presentation / Symposia/ Webinar /Publications/ On-line course/workshop :

1. Publication by Anand Mohan Murmu : Evaluation of hardness and wear behavior of laser cladding zirconia-alumina-titania ceramic top coating on pure Ti6Al4V, Authors – A M Murmu, S Kumar, S.K. Parida, A.K. Das, Vol.-26, Year – 2020, Publication- 1103-1107
2. Pradyut Kumar Swain, Kasinath Das Mohapatra, Ratnakar Das, Ashok Kumar Sahoo and Amlana Panda (2020), Experimental investigation into characterization and machining of Al + SiC nano-composites using coated carbide tool, Mechanics * Industry 21, 307 (2020) (SCI and Scopus Indexed)
3. Tita Kumari Sahu, Ratnakar Das and B.C. Routara (2020), Studies on die designs in multi hole extrusion process, Materials Today m: Proceedings, vol. 26, pp. 2043-3047. (Scopus Indexed and UGC approved Journal)



4. Shambhu Kumar, Ratnakar Das, Sambit Kumar Parida (2020), Water absorption and mechanical properties of sabia yarn in FRP composite, *Materials Today : Proceedings*. vol 26, pp.1610-1615. (Scopus Indexed and UGC approved Journal)
5. Umasankar Das, Ratnakar Das, Vijay Toppo, Dry sliding wear behavior study on friction stir weld joints of dissimilar aluminum alloys, *Materials Today : Proceedings*, vol. 26. pp. 1815-1821 (Scopus Indexed and UGC approved Journal).
FDP course attended : 02 (Each of one week)
Industrial Training taken : 15 days at HEC , Ranchi
6. Proposal submitted by Dr. Jagesvar Verma for Simufact Welding and Forming Software
7. "Welding as a Career"- The Untold Success"organized by Yeshwantrao Chavan College of Engineering, Nagpur, 29th June 2020 by Dr. Jagesver Verma
8. Digital Transformation with Industrial Internet of Things & Augmented Reality. NIFFT, Ranchi, July 2020 by Dr. Jagesver Verma
9. Dr. Jagesver Verma was webinar organized as a Convener : "New generation Advanced Welding Techniques and Career Opportunities", 8th July 2020. Attended candidate : 43

FDP/ Short Term Course Attended

1. Dr. Aruna Thakur was attended One Week Online Short Term Course on "Hybrid Manufacturing Processes : Opportunities and Challenges"Organized at Dr. B.R. Ambedkar national Institute of Technology, Jalandhar, India from 06-10 July, 2020 under TEQIP-III.
2. Dr. Anand Mohan Murmu successfully completed two NPTEL online Faculty Development Programme (FDP) course on "An Introduction to Materials: Nature and Properties"and "Non-Destructive Testing (NDT)".
3. Dr. Umesh Khandey successfully completed Faculty Development Programme (FDP) Via SWAYAMNPTEL online Courses on Mechanics of Machining (8 weeks) and Manufacturing Process Technology I and II (12 weeks).
4. Dr. Umesh Khandey successfully completed one week of AICTE Training And Learning (ATAL) Academy FDP on '3D Printing & Design"
5. Dr. Umesh Khandey successfully completed a 3-days workshop on "Faculty Development Program for Student Induction (FDP-SI)"organized by All India Council for Technical Education (AICTE).

Administrative Assignment

Dr. A.K Sood:

1. Head, Department of Manufacturing Engineering
2. Chairman, Central Computer Centre
3. Chairman, House Allotment Committee
4. Member, Library Committee

5. Member, Propertieri Committee
6. Member, Technical Evaluation Committee

Dr.G.Rajamohan:

1. In-charge for Metrology Laboratory and FMS Laboratory.
2. QIP Coordinator
3. Carried out the work entrusted by the Head, ME and Director, NIFFT from time to time.

Dr. Aruna Thakur

1. Hostel warden KCC NIFFT Hatia, Ranchi 2.

Dr. Jagesvar Verma

1. Member of Tabulation committee - M.Tech
2. Member of new faculty scrutiny committee
3. Member Secretary of Centralized Computer Center (CCC), NIFFT Hatia, Ranchi

Dr. Anand Mohan Murmu :

1. **Lab development :**
 - (i) Two equipment ((Brinell hardness testing and Impact testing machine) purchased for Materials Testing lab.
 - (ii) Die sinking EDM machine purchase is under progress.
2. **Administrative responsibilities:**
 - (i) Committee members of SC/ST cell
 - (ii) Member and coordinator of UBA Cell, MIFFT
 - (iii) Committee member of Entrepreneurial cell

Dr. Ratnakar das :

1. Associate Dean (UG)
2. Purchase committee member
3. Centralized Computer Centre committee member
4. Committee member for E-office implementation committee
5. Initiation of Centre for Innovation and Skill Development and acting as Member Secretary. Three student innovation projects are going on. One project is ready for patent filing





DEPARTMENT OF MATERIALS AND METALLURGICAL ENGINEERING

About Department:

The department of Materials and Metallurgical Engineering has been dedicated in inculcating its students to make them world class engineers, creating outstanding research environment and giving the nation a direction for tomorrow in the Materials and Metallurgical Engineering sectors. The faculty members, students and staffs have been continuously putting their best to incorporate their contribution in the mentioned activities. Some of the salient achievements are listed as follows:

FACULTY :

1	Dr. B. K. Chakrabarty PhD (IIT, Kharagpur)	Professor
2	Dr. B. Kumar PhD (IIT, Kharagpur)	Professor
3	Dr. Bimal Kumar Jha PhD (University of Roorkee)	Professor
4	Dr. B. Mallik PhD (IIT, Kharagpur)	Associate Professor
5	Dr. G. Das PhD (IIT, Mumbai)	Associate Professor
6	Dr. D. Roy PhD (IIT, Kharagpur)	Associate Professor&HoD
7	Dr. C. Chattopadhyay PhD (IIT, Kanpur)	Assistant Professor
8	Dr. R. K. Gupta PhD (Brown University, USA)	Assistant Professor
9	Mr. K. Sikdar M.Tech (IIT, Kanpur)	Assistant Professor
10	Dr. Tapabrata Maity PhD (IIT, Kharagpur)	Assistant Professor

ACTIVITIES

Academic Activities:

Number of subjects offered by the department:

Name of Course	No. of Subjects Offered
B.Tech. (M.E.&M.M.E.)	30
M.Tech. Courses (F.F.T.&M.E.)	12
A.D.C.(Foundry Tech. & Forge Tech.)	03

Projects / Seminar/ Conference/ Presentation / Symposia/ Publications

1. S Chakraborty, A.K Gupta, Debdas Roy, A Basumallick, "nanomechanical Properties of mechanically alloyed and spark plasma sintered W-nanoparticulate dispersed Cu-nballoys"Materials Letters 274 (2020) 128001
2. Debdas Roy, S. Chakraborty, A.K. Gupta, A Basumallick, carl C Koch. "Synergistic effect of Nb and Zr addition in thermal stabilization of nano-crystalline Cu synthesized by ball milling"Materials Letters 271 (2020) 127780.
3. A. Gupta. B Mallik, D. Roy "Structure property correlation of in-situ reinforced Al based metal matrix composite via Stir Casting"Materials Performance and Characterization Vol. 9 no. 1 (2020).

Administrative Assignments:

Faculty members of the department were engaged in various administrative activities.





DEPARTMENT OF APPLIED SCIENCES AND HUMANITIES

About Department:

The department is an integral part of the Institution and it is ready to meet any responsibility assigned it to facilitate the progress of different courses. The department comprises the following Subjects Physics, Chemistry, Mathematics, Environmental Engineering, Electrical Engineering, Electronics Engineering and Humanities.

The department provides excellent laboratory facilities for both under graduate and post graduate students. It provides wide spectrum of Digital Electronics, Analog Electronics, Microprocessor, Control system, Electrical Machine, Electronics, Physics, Chemistry, Instrumentation, etc, laboratories. Apart from these students are offered different projects. The technical and general staff of this department is very helpful to conduct the routine practical of UG & PG programs. The department has started two years full time course in M.Tech (Environmental Engineering) in 2007 to cater the specific requirement of industries. The syllabus of the course has been designed to full fill the requirement of industries. The department is supporting the UG courses of the Institute offering a compulsory subject in environmental engineering. The department is having various equipment required for courses like water pollution, air pollution, noise pollution, etc. It also serves the post graduate students of Environmental Engineering to augment the research and consultancy facilities in this emerging field.

Faculty

1	Dr. S. R. Kumar Ph. D. (Materials Science)	Professor
2	Dr. Anil Kumar M. Tech. (Surface Sc. and Engg.); Ph. D (Engg.) in Metallurgy and Materials Engineering	Professor
3	Dr. Arvind Pandey Ph.D (Physics)	Professor & HOD
4	Ms. Sujata Gupta MA (English)	Assistant Professor
5	Ms. Madhu Kumari B. Sc. Engg. (E & C), M. Tech. (IT)	Assistant Professor
6	Dr. Partha Sarathi Mondal, Ph. D (Physics)	Assistant Professor
7	Dr. Vikash Kumar Gupta M. Tech. (Electrical Engg.) & Ph.D (Electrical Engineering)	Assistant Professor
8	Dr. Subhankar Basu M. Tech. (Environmental Engineering) Ph. D (Bioscience Engg.)	Assistant Professor

9	Dr. H. Vignesh Babu Ph.D(Chemistry)	Assistant Professor
10	Dr. Abhilash T. Nair Ph.D (Environmental Engineering)	Assistant Professor
11	Dr. Sriparna Chattopadhyay Ph.D (Mathematics)	Assistant Professor

Activities

A. Academic Activities

- (i) The Department of Applied Sciences & Humanities (DASH) offers courses for B.Tech. and M.Tech. programs.
- (ii) DASH offers M.Tech. programme in Environmental Engineering.

B. Offers Doctoral Programme.

C. Research and Development Activities

Projects / Seminar/ Conference/ Presentation / Symposia/ Webinar /Publications/ On-line course/workshop :

1. Annealing Temperature Dependent Structural and Optical Properties of Nanocrystalline ZnTe Thin Films Developed by Electrodeposition Technique, Shashikant Rajpal, S.R. Kumar communicated to J. of Solid State Sciences, Ref SSSCIE 2020 849.
2. "Catechol based polyphosphates with tunable microstructure assisted Li-ion conductivity as solid polymer electrolytes". H Vignesh Babu, ACS Applied Energy Materials" Under review, Manuscript ID: ae-2-2-010674.
3. "Structural, Morphological and Optical Properties of Nanocrystalline ZnCdTe Thin Films Developed by Electrodeposition Technique". Number : 172, Shashikant Rajpal and Shyam Ranjan Kumar. Communicated for oral presentation in National conference on Materials Processing, Modelling and Characterization (RDMPMC20) to be held at NIT Jamshedpur during 26-27 August 2020.
4. "Post Annealing Analysis of Mg Doped ZnO Thin Film Developed by Electrodeposition Technique", Number : 157, Shashikant Rajpal, Suresh Kumar and Shyam Ranjan Kumar. Communicated for oral presentation in National conference on Materials Processing, Modelling and Characterization (RDMPMC20) to be held at NIT Jamshedpur during 26-27 August 2020.
5. "CdS Thin Film : Synthesis, Characterization and Applications "Suresh Kumar, S Rajpal, and S.R. Kumar, Accepted for oral presentation in National conference on Materials Processing, Modelling and Characterization (RDMPMC20) to be held NIT Jamshedpur during 26-27 August 2020.
6. Introduction of inhibitors, Mechanism and Application for Protection of steel reinforcement corrosion in concrete. DOI: <http://dx.doi.org/10.5772/intechopen92374>. by Anil Kumar.



7. From 13th July to 15th July, 2020 webinar on Arc GIS by ESRI UC India.
8. IIRS outreach Programme conducted on Application of Geoinformatics in ecological Studies, Started from 13th July 2020 to 24 July 2020 (going on)
9. One Ph.D. awarded on 09th July 2020 to Mr. Rachit Ghosh from IIT (ISM Dhanbad) on the topics "Performance evaluation of Fly ash based Geopolymer concrete using Bottom Ash as Fine aggregate,"
10. M.Tech. Viva voce Examination conducted in NIT Jamshedpur on 20 June 2020.
11. Partha Sarathi Mondal, delivered an Invited talk on PCR free detection of virus RNA by electrochemical methods : Possible technique for rapid and accurate detection of SARS-Cov-2 in a international Webinar on COVID-19 SAGA : A GLOBAL THREAT held during 26-27 June, 2020 organized by the Department of Physics, Sidho-Kanho-Birsha University, Puyrulia, West Bengal, INDIA.
12. Chitosan based thin active layer forward osmosis (FO) membrane for sewage up-concentration and resource recovery, 21.2 Lakhs, Dr. S. Basu.
13. S.R. Kumar, attended Lecture Series on "New Generation Advanced Welding Techniques and Career Opportunities" was organized by Department of Manufacturing Engineering, National Institute of Foundry and Forge Technology, Ranchi, on 8th July 2020.
14. H. Vignesh Baby, Challenges in Conducting Online Examinations in India organized by mUni Campus, 16th May, 2020.
15. H. Vignesh Babu, Reflection of Higher Education Scenario- Post COVID-19 organized by NAAC, 13th June, 2020.
16. H. Vignesh Babu, Engineering Skills for the year – 2020 and beyond organized by MAKAUT, W.B, 25th June, 2020.
17. H. Vignesh Babu, Digital Transformation with Industrial Internet of things & Augmented Reality, organized by NIFFT & Design Tech. 4th July, 2020.
18. H. Vignesh Babu, Molecular Materials: Present and Future Trends organized by Annamalai University, 15th July, 2020.
19. Abhilash Nair, Introduction to E-waste, conducted in collaboration with United Nations Environment Programme, Base Convention, World Resource Forum, May 22, 2020.
20. Abhilash Nair, E-waste and Children's Health, conducted in collaboration with World Health Organization, United Nations Environment Programme, Based Convention, World Resources Forum.
21. Abhilash Nair, Effective and efficient online teaching in the age of corona, a hands on workshop, conducted by IIT Bombay funded by Pandit madan Mohan Malaviya National Mission on Teachers and Teaching (PMMJNMTT), MHRD, Govt. of India.
22. Arvind Panday, acted as reviewer in International e-Poster Conference on Current Outlook in Material Science and Engineering (COMSE-2k20), organized by Bodoland University in association with Tripura University. ADP College, Nagaon and MFT Aurangabad, May 15-16 May, 2020.

FDP/ Short Term Course Attended**Dr. Vikash Kumar Gupta**

1. Mentoring Pedagogy and Teaching for Higher Education, Electronics & ICT Academy, Indian Institute of Technology Guwahati, 03-10 August , 2020.

Administrative Assignment

- Prof. Arvind Pandey, HoD
- Prof. Arvind Pandey, Chairman, AICTE, NIRF, NBA committee
- Prof. Arvind Pandey, Associate Dean (PG).
- Dr.S.R.Kumar, Chairman Purchase Committee
- Dr.S..R. Kumar, Member Library Committee
- Dr. P. S. Mondal, CCMT-Nodal for M.Tech. counselling
- Dr. P. S. Mondal, Participated actively in institute faculty recruitment process
- Dr. P. S. Mondal, Member of the committee for AICTE, NIRF, NBA and Deemed to be university
- Dr. P. S. Mondal, PMKVY Institute coordinator
- Dr. P. S. Mondal, Hostel Warden, K. C. hostel
- Dr. P. S. Mondal, Member of Purchase Committee.
- Dr. S. Basu, Member of Campus Maintenance Committee
- Dr. S. Basu, Member Secretary of ILC
- Dr. S. Basu, Lab in-charge of Chemistry & Environmental Engineering





ACADEMIC ACTIVITIES

Regular Activities of Academic Section.

All the regular activities of Academic Section such as conducting semester examinations, publishing of results have been carried out as per schedule. Classes of First semester M. Tech.-2020, B. Tech.-2020 and ADC 2020 had been started as per schedule.

As a mark of the excellence, following student has been awarded Gold Medal by Ranchi University during the 34th CONVOCATION of the University.

SN	Name of the students	Course	Branch	Batch
1	Ms. Jaya Gupta AIR-1, GATE-2020	B. Tech.	Metallurgy and Materials Engineering	2016-2020

Admission -2020

1. Ph. D. Programme

Admission of Ph. D. students selected through written test & interview were conducted by respective departments.

Sl. No.	Department	No. of seats	No. of seats filled
1	1. Metallurgy and Material Engineering 3		3
2	2. Forge Technology	3	2
3	3. Foundry Technology	3	3
4	4. Manufacturing Engineering	3	3
5	5. DASH	3	2

2. M.Tech.

Admission through CCMT-2020

Sl. No.	Branch	No. of seats	No. of seats filled
1	1. Manufacturing Engineering	38	14
2	2. Foundry-Forge Technology	35	11
3	3. Environmental Engineering	38	36
4	4. Materials Science & Engineering	35	05

3. B. Tech.

Admission through JoSAA/CSAB-2020

Branch	No. of seats	No. of seats filled
Mechanical Engineering	75	74
Metallurgy and Materials Engineering	75	71

4. ADC

Admission through written test conducted by the Institute.

Branch	No. of seats	No. of seats filled
Foundry Technology	58	55
Forge Technology	57	44

Students Passed out in 2020

1. M.Tech. (2018-2020)

Branch	No. of students passed out	
1. Manufacturing Engineering		17
2. Foundry-Forge Technology		23
3. Environmental Engineering		20
4. Materials Science & Engineering		16

2. B. Tech. (2016-2020)

Branch	No. of students passed out
Manufacturing Engineering	36
Metallurgy and Materials Engineering	33

3. 47th ADC

Branch	No. of students passed out
Foundry Technology	46
Forge Technology	44

Academic Council Meeting

1. XXXVII Meeting of Academic Council was held on 08th December -2020.





M. Tech. 2019-2021 batch (Project Topic branch wise)

Foundry-Forge Technology

Sl No.	JUT Registration No.	Name of the Student	Project topic	Name of the Guide
1	19053790001	Abinash Pradhan	Optimization of process parameter on knuckle joint by using taguchi method	Dr. R. K. Ohdar
2	19053790002	Abira Rashid	Optimization and simulation of grinding media balls casting	Dr. K.K. Singh
3	19053790003	Ashish Kumar Nayak	Experimental investigation of the effect of silicon carbide particles reinforced aluminium a356 metal matrix composites the influence of ultrasonic vibration	Dr. Nandita Gupta
4	19053790004	Ashutosh Ranjan	Studies on heat treatment kinetics and mechanical properties for cold forged al-1.Asi-097mg alloy	Dr. R. R. Kulkarni
5	19053790005	Diksha Dwivedi	Study of synthesization and characterization of grey cast iron by slope casting	Dr. A.K. Singh
6	19053790006	Kumar Abhinav	Simulation study of dimensional deviation in metal casting with varying part geometry	Dr. Himanshu Khandelwal
7	19053790008	Mohit Sharma	Effect of process parameters of cooling slope on microstructure and mechanical properties of a383	Dr. Nandita Gupta
8	19053790009	Prakash Chandra	Study of processing and fabrication of oxide dispersion strengthening (ods) steel	Dr. Deepak Kumar
9	19053790010	Prashant Kumar Maurya	Determination of the coefficient of friction for different forging lubricants using ring compression test	Dr. Manoj Kumar
10	19053790011	Rahul Oraon	Effect of temperature and strain rate on upsetting of ring using ring compression test	Dr. Manoj Kumar
11	19053790012	Rajiv Kumar	Simulation of multi axial forging of az80 mg alloy	Dr. A.K. Pramanick
12	19053790013	Rakesh Vishwas	A review on the properties of aluminium metal matrix nanocomposites fabricated through powder forging	Mr. Vineet Chak

Sl No.	JUT Registration No.	Name of the Student	Project topic	Name of the Guide
13	19053790014	Rohit Upadhyaya	Die design optimization of front axle beam using simulation software	Dr. N.K. Singh
14	19053790015	Vijay Yadav	Digital solutions in high pressure moulding machines	Dr. Amitesh Kumar





M. Tech. 2019-2021 batch (Project Topic branch wise)

Manufacturing Engineering

Sl No.	JUT Registration No.	Name of the Student	Project Topic	Name of the Guide
1	19053800001	Alok Suna	Effect of conventional tig welding and a-tig welding on distortion of dissimilar stainless steel joints	Dr. A. Mondal
2	19053800002	Abhay Kumar Shrivastava	An experimental and simulation analysis on fluidity of aluminum a356 using visual cast	Dr. A. Mondal/ Dr. K. K. Verma
3	19053800003	Amrendra Raj	A study on reduction of defects in friction stir welding using failure mode and effects analysis	Dr. V.M.S. Hussain
4	19053800004	Arun Kumar Bambam	To study the effect of processing parameters on the tensile strength of als10mg part fabricated through slm process	Dr. Anoop Kumar Sood
5	19053800005	Divisha Singh	A comparative study of influence of vegetable oil based cutting fluids on aisi304 stainless steel	Dr. Umesh Khandey
6	19053800007	Jagabandhu Sahoo	Numerical simulation & experimental characterization of al-li-cu alloy weldments by friction stir welding process	Dr. J. Verma
7	19053800009	Kumar Kanhaiya	Stability of pre-twisted sandwich beams under various boundary conditions	Dr. Sanjay Kumar
8	19053800012	Pappu Kumar Verma	Synthesis and characterization of cr2o3-al2o3 clad coating on mild steel using tig process	Dr. S.K. Parida
9	19053800015	Pradip Mandal	Welding of dissimilar low alloy cr-mo steel plates p91 and p22 by gas metal arc welding	Dr. A.K. Pathak
10	19053800016	Priyesh Kumar	An experimental study and analysis of stir casting and ultrasonic casting of aluminium (ai6063) with nanoparticles of titanium dioxide (tio2)	Mr. S. K. Soren
11	19053800017	Sourav Dolui	Influence of electrodes on machined surface quality during edm of nimonic c-263	Dr. Aruna Thakur
12	19053800018	Stuti Bajpai	Evaluation of form deviations using nurbs	Dr. G. Rajamohan
13	19053800019	Vikash Kumar	A study of burr formation and hole quality in drilling of aa-6351-t6 aluminium alloy	Dr. Ratnakar Das



M. Tech. 2019-2021 batch (Project Topic branch wise)

Materials Science and Engineering

Sl No.	JUT Registration No.	Name of the Student	Project Topic	Name of the Guide
1	19053810001	Gaurav Prakash	Characterization of dissimilar weld joints of aisi 430 and aisi 304l stainless steels prepared by tig welding	Dr. Binod Kumar
2	19053810002	Kolli Siddardha Naidu	Synthesis and characterization of cr ₂ o ₃ -al ₂ o ₃ clad coating on mild steel using tig method	Dr. B. Mallik
3	19053810003	Kunal Bhalchandra Bhole	Modelling and simulation of wear on pin on disc using ansys	Dr. Ghanshyam Das
4	19053810004	Sudhanshu Shekhar Rana	Mechanical property enhancement of nanocrystalline cuw alloy	Dr. D. Roy





M. Tech. 2019-2021 batch (Project Topic branch wise)

Environmental Engineering

Sl No.	JUT Registration No.	Name of the Student	Project Topic	Name of the Guide
1	19053780002	Anant Khaware	Analysis of strength of geopolymers samples using central composite design	Dr. Anil Kumar
2	19053780003	Anant Kumar Sah	IoT enabled smart irrigation system monitoring and water harvesting in different soils	Mrs. Madhu Kumari
3	19053780004	Bijendra Kumar	Modelling and analysis of water quality of Ganga river basin using CCME WQI	Dr. H. V. Babu
4	19053780005	Gyan Prakash	Application of Python for analysing air quality during COVID-19 lockdown	Dr. T. Abhilash Nair
5	19053780006	Praveen Kumar Bharti	Modelling of health impact due to improved air quality during COVID-19 lockdown in India	Dr. T. Abhilash Nair
6	19053780007	Raj Kumar	Study of TiO ₂ photocatalyst assisted advanced oxidation process	Dr. P.S. Mandal
7	19053780008	Rohit Keshri	Recycling and management of waste lead acid batteries	Dr. S. Basu
8	19053780009	Ruman Saghir	Public understanding of e-waste and its disposal in India	Dr. V.K. Gupta
9	19053780010	Santosh Kumar	Assessment of air pollutants in Ranchi city before and during lockdown due to COVID-19	Dr. Arvind Pandey



B. Tech. 2017-2021 batch (Project and Seminar Topic branch wise)**Manufacturing Engineering**

SI No.	Roll No.	Name of the Student	Project Topic	Name of the Guide
1	101/17	Aditya Gupta	Total quality management in advance manufacturing	Prof. Sanjay Kumar
2	102/17	Dhiraj Kumar	Mechanical properties of engineering materials	Dr. Umesh Khandey
3	103/17	Sudhanshu Ranjan	Total quality management in advance manufacturing	Prof. Sanjay Kumar
4	104/17	Bobde Yogesh Dattarao	Ultrasonic casting	Mr. S.K Soren
5	105/17	Vivek Ranjan	Experimental and transient thermal analysis of heat sink fins of various types	Mr. S.K.Soren
6	106/17	Shashank Kumar Chaurasia	Additive manufacturing	Mr. A .M. Murmu
7	107/17	Pranaj Sharma	Industrial internet of things	Dr. Umesh Khandey
8	109/17	Abhishek Kumar	Design and fabrication of automatic sheet metal cutting machine using geneva mechanism	Dr. Ratnakar Das
9	110/17	Jayhind Chauhan	Design and fabrication of automatic sheet metal cutting machine using geneva mechanism	Dr. Ratnakar Das
10	111/17	Aman Raj	Ultrasonic casting	Mr. S.K.Soren
11	112/17	Sumit Raj	Total quality management in advance manufacturing	Prof. Sanjay Kumar
12	114/17	Akash Verma	Total quality management in advance manufacturing	Prof. Sanjay Kumar
13	115/17	Sushant Shekhar	Kitchen waste disposal machine	Dr. Ratnakar Das
14	116/17	Chandrapal Rao	Ultrasonic casting	Mr. S.K.Soren
15	117/17	Jay Singh	Mechanical properties of engineering material	Dr. Umesh khandey
16	118/17	Narahari Krishna Potluri	Mechanical properties of engineering materials	Dr. Umesh khandey
17	129/16	Sunny Dewol Kumar Paswan	Study of structure and properties of gray cast iron.	Dr. Amitesh kumar
18	133/16	Manish Kumar	Study of structure and properties of grey cast iron	Dr. Amitesh Kumar





B. Tech. 2017-2021 batch (Project and Seminar Topic branch wise)

Metallurgy and Materials Engineering

Sl No.	Roll No.	Name of the Student	Project Topic	Name of the Guide
1	201/17	Munukutla Sri Sai Ramesh	Heat treatment optimised astm a668 steels developed for turbine shafts	Dr. Debdas Roy
2	202/17	Divya Ojha	Effect of austempering on sg iron	Dr. Debdas Roy
3	203/17	Divyanshu Raj	Study of heat treatment and corrosion behaviour of 316l steel	Dr. Ratnesh Kumar Gupta
4	204/17	Nitish Kumar	Optimization of ferro alloys usage in steelmaking	Dr. Tapabrata Maity
5	205/17	Dasari Harika Chowdary	Effect of cooling rate on hardness and microstructure of low alloy steel on heating to austenitic temperature	Dr. Debdas Roy
6	206/17	Rishabh Ranjan	Study of mechanical properties of aisi 304 l and aisi 430 dissimilar weldments	Prof. BINOD KUMAR
7	207/17	Singaraju Sai Naga Aditya Viswanath	Structural characterisation and analysis o deformation induce phase transformation in 304l stainless steel.	Mr. Koushik Sikdar
8	208/17	Shaista Perween	Characterization of amorphous alloy dispersed aluminium matrix composites	Dr. Debdas Roy
9	209/17	Rajneesh Prakash	Characterization of amorphous alloy dispersed aluminium matrix composites	Dr. Debdas Roy
10	210/17	Digvijay Samir	Multiobjective optimization of forging process:soft computing based approach	Prof. R. K. Odhar
11	211/17	Sumit Kumar Jha	Study of corrosion behavior of dissimilar weld joints of aisi 304 l and aisi 430 in different corrosive media	Prof. Binod Kumar
12	212/17	Sweta Sharma	Effect of austempering on sg iron	Dr. Debdas Roy
13	213/17	Gaurav Kumar Mishra	Heat treatment optimised astm a668 steels developed for turbine shafts	Dr. Debdas Roy
14	214/17	Shyamal	Clamping of composites on sheet metal	Mrs. Madhu Kumari
15	216/17	Naman Tyagi	Quality prediction of froth floatation in mining process using machine learning	Dr. Krishna Kumar Verma
16	217/17	Suraj Kumar	Clamping of sheet metal on metal composites for consumer purposes	Mrs. Madhu Kumri
17	218/17	Nitish Kumar	Data driven modeling of hot strip rolling	Dr. Partha Protim Chattopadhyay & Dr. Subhamita Chakroborty

Sl No.	Roll No.	Name of the Student	Project Topic	Name of the Guide
18	219/17	Md Shoaib Ansari	Study of heat treatment and corrosion behaviour of aisi 304l steel	Dr. Ratnesh Kumar Gupta
19	220/17	Subham Akhouri	Effect of heat treatment on mechanical properties of aisi 304 stainless steel	Dr. Ratnesh Kumar Gupta
20	221/17	Shristi Dhanuka	Effect of cooling rate on hardness and microstructure of low alloy steels on heating to austenitic temperature	Dr. Debdas Roy
21	222/17	Satyam Kumar	Corrosion behaviour of duplex stainless steel	Dr. GHANSHYAM DAS
22	223/17	Anandarup Ghosh	Effect of heat treatment on mechanical properties of aisi 304 stainless steel	Dr. Ratnesh Kumar Gupta
23	224/17	Shubham Kumar	Optimization of ferro alloys usage in steelmaking	Dr. Tapabrata Maity
24	225/17	Shubham Priyadarshi	Total quality management and it's impact on iron and steel industry	Dr. B. Malik
25	226/17	Utkarsh Kumar	Study of corrosion behavior of dissimilar weld joints of aisi 304l and aisi 430 in different corrosive media	Prof. BINOD KUMAR
26	227/17	Probir Chakraborty	Effect of cold rolling on corrosion of stainless steel	Dr. Ghanshyam Das
27	228/17	Shashi Kant Sharma	Quality prediction of froth floatation in mining process using machine learning	Dr. Krishna Kumar Verma
28	229/17	Aditya Kumar Jha	Different source of heat and energy consideration for melting in solidification of materials	Dr. CHINMOY CHATTOPADHYAY
29	230-17	Ankit Kumar Kasaudhan	Influence of heat treatment on the corrosion of micro alloyed steel in sodium chloride solution.	Dr. Ghanshyam Das
30	231/17	Abhay Kumar	Study of corrosion problems on cast iron pipes	DR. GHANASHYAM DAS
31	232/17	Vikas Kumar	Study of corrosion problems on cast iron pipes	Dr. Ghanshyam Das
32	233/17	Sonu Kumar Rawani	Influence of heat treatment on the corrosion of microalloyed steel in sodium chloride solution.	Dr. Ghanshyam Das
33	234/17	Sriram Naveen Kumar	Structural characterization and analysis of deformation induced phase transformation in 304l stainless steel	Mr. Koushik sikdar
34	235/17	Nagmani	Optimization of ferro alloys usage in steelmaking	Dr. Tapabarta Maity



Sl No.	Roll No.	Name of the Student	Project Topic	Name of the Guide
35	236/17	Anurag Bagaria	Synthesis of shape memory alloys by powder metallurgy route	Mr. Koushik Sikdar
36	237/17	Vishal Yadav	"Corrosion behavior of duplex stainless steel"	Dr. Ghanshyam Das
37	238/17	Banty Kumar	To study the microstructure and mechanical properties of dual phase steel	Dr. B.MALLIK
38	239/17	Abhishek Kumar	Influence of heat treatment on the corrosion of carbon steel in environment containing carbon dioxide and acetic acid	DR. GHANSHYAM DAS
39	240/17	Dharmendra Kumar	Supply chain management	Dr. R.K. OHDAR
40	241/17	Raj	Effect of cold rolling on corrosion of stainless steel	Dr. GHANSHYAM DAS
41	242/17	Santosh Prasad	Influence of heat treatment on the corrosion of carbon steel in environment containing carbon dioxide and acetic acid	DR. GHANSHYAM DAS
42	243/17	Siddharth Yadav	Review of cold forging of al-mg alloy	Dr. Tapabrata Maity
43	244/17	Nazneen Parveen	Multiobjective optimization of forging process:soft computing based approach	Prof. R. K ODHAR
44	245/17	Yash Nishant	Effect of cooling rate on solidification	Dr.Chinmoy Chattopadhyay
45	246/17	Om Prakash Kumar	Study of impact in the hardness and microstructure of aluminium alloys on addition of copper and magnesium	Dr. Tapabrata Maity
46	247/17	Rohika Kumari	Study of heat treatment and corrosion behaviour of 316l steel	Dr. Ratnesh Kumar Gupta
47	248/17	Sudhanshu Kumar	To study the microstructure and mechanical properties of dual phase steel	Dr. B. Mallik
48	249/17	Jyotiman Barman	Synthesis of shape memory alloys by powder metallurgy routes	Prof. Koushik Sikdar
49	250/17	Marripati Hemanth	Effect of heat treatment on corrosion behavior of 304 steel	Mr. Koushik Sikdar
50	253/17	Anugrah Fedric Kujur	Development of tungsten dispersed copper composite for electrical application	Mr. Koushik Sikdar
51	254/17	Nenavath Kubbu Nayak	Study of impact in the hardness and microstructure of aluminium alloys on addition of copper and magnesium	Dr. Tapabrata Maity

Sl No.	Roll No.	Name of the Student	Project Topic	Name of the Guide
52	255/17	Amaladasu Jagadesh Lakshimipathi	Effect of heat treatment on corrosion behavior of 304 steel	Mr. Koushik Sikdar
53	256/17	Ashish Kumar	Development of tungsten dispersed copper composite for electrical application	Mr. Koushik Sikdar
54	257/17	Ranjit Kumar	Total quality management and its impact on iron and steel industries	Dr. B. Mallik
55	239/16	Guguloth Rakesh	Mechanical properties of aluminum - copper composite metallic materials	Dr. B. Mallik
56	114/15	Mangalagiri Rajesh	Mechanical properties of aluminum - copper composite metallic materials	Dr. B. Mallik
57	121/15	Rajen Baraik	Mechanical properties of aluminum - copper composite metallic materials	Dr. B. Mallik





B. Tech. 2017-2021 batch (Project and Seminar Topic branch wise)

Metallurgy and Materials Engineering

Sl No.	Roll No.	Name of the Student	Seminar Topic	Name of the Guide
1	201/17	Munukutla Sri Sai Ramesh	Structure analysis tools	Dr. Debdas Roy
2	202/17	Divya Ojha	Quenched and partitioned hot rolled steels	Dr. Debdas Roy
3	203/17	Divyanshu Raj	Desulphurisation of liquid steel in low carbon grade	Dr. Ratnesh Kumar Gupta
4	204/17	Nitish Kumar	Production of galvanized steel and its consumption in india	Dr. Tapabrata Maity
5	205/17	Dasari Harika Chowdary	Nanocrystalline materials	Dr. Debdas Roy
6	206/17	Rishabh Ranjan	High entropy alloys	Prof. Binod Kumar
7	207/17	Singaraju Sai Naga Aditya Viswanath	Strengthening mechanisms in materials.	Mr. Koushik Sikdar
8	208/17	Shaista Perween	Cast iron	Dr. Debdas Roy
9	209/17	Rajneesh Prakash	Age hardening	Dr. Debdas Roy
10	210/17	Digvijay Samir	Isothermal forging:an overview	Prof. R. K. Odhar
11	211/17	Sumit Kumar Jha	Shape memory alloys	Prof. Binod Kumar
12	212/17	Sweta Sharma	Metal 3d printing	Dr. Debdas Roy
13	213/17	Gaurav Kumar Mishra	Non destructive testing	Dr. Debdas Roy
14	214/17	Shyamal	Clamping of composite on sheet metal	Ms. Madhu Kumari
15	216/17	Naman Tyagi	Introduction to nanomaterials and graphene	Dr. Krishna Kumar Verma
16	217/17	Suraj Kumar	Supply chain management	Ms. Madhu Kumari
17	218/17	Nitish Kumar	Remote health monitoring system using iot	Dr. Partha Protim Chattopadhyay & Dr. Subhamita Chakroborty
18	219/17	Md Shoaib Ansari	Graphene and its properties	Dr. Ratnesh Kumar Gupta
19	220/17	Subham Akhouri	Oppertunities with additive manufacturing	Dr. Ratnesh Kumar Gupta
20	221/17	Shristi Dhanuka	Smart materials	Dr. Debdas Roy

Sl No.	Roll No.	Name of the Student	Seminar Topic	Name of the Guide
21	222/17	Satyam Kumar	Study and application of piezoelectric materials	Dr. Ghanshyam Das
22	223/17	Anandarup Ghosh	Iron manufacturing technology (corex process)	Dr. Ratnesh Kumar Gupta
23	224/17	Shubham Kumar	Carbon fibre	Dr. Tapabrata Maity
24	225/17	Shubham Priyadarshi	Ultrasonic technique and its recent advancements in quality assurance	Dr. B. Malik
25	226/17	Utkarsh Kumar	High strength steels in electric vehicles	Prof. Binod Kumar
26	227/17	Probir Chakraborty	Effect of lubrication on hot rolling mill	Dr. Ghanshyam Das
27	228/17	Shashi Kant Sharma	Uses of artificial neural network and multiple linear regression in metallurgy	Dr. Krishna Kumar Verma
28	229/17	Aditya Kumar Jha	Different source of heat and energy consideration for melting in solidification of materials	Dr. Chinmoy Chattopadhyay
29	230-17	Ankit Kumar Kasaudhan	Computer application in metallurgy.	Dr. Ghanshyam Das
30	231/17	Abhay Kumar	Utilization and prospects of nanomaterials	Dr. Ghanashyam Das
31	232/17	Vikas Kumar	Recent developments in cast iron pipes	Dr. Ghanshyam Das
32	233/17	Sonu Kumar Rawani	Shape memory alloys	Dr. Ghanshyam Das
33	234/17	Sriram Naveen Kumar	Strengthening mechanism of materials	Mr. Koushik Sikdar
34	235/17	Nagmani	Shape memory alloys	Dr. Tapabarta Maity
35	236/17	Anurag Bagaria	Introduction to aerospace structures and materials	Mr. Koushik Sikdar
36	237/17	Vishal Yadav	Study and application of magnetostrictive materials	Dr. Ghanshyam Das
37	238/17	Banty Kumar	Ultrasonic technique and its recent advancements in quality assurance	Dr. B.mallik
38	239/17	Abhishek Kumar	Protection against corrosion the ships	Dr. Ghanshyam Das
39	240/17	Dharmendra Kumar	Supply chain management	Dr. R.k. Ohdar
40	241/17	Raj	Lubrication effect on hot rolling mill	Dr. Ghanshyam Das
41	242/17	Santosh Prasad	Marine corrosion of steel	Dr. Ghanshyam Das



SI No.	Roll No.	Name of the Student	Seminar Topic	Name of the Guide
42	243/17	Siddharth Yadav	Biodegradable magnesium alloys	Dr. Tapabrata Maity
43	244/17	Nazneen Parveen	Types of forging defects and its remedies	Prof. R. K Odhar
44	245/17	Yash Nishant	Effect of cooling rate on solidification	Dr.chinmoy Chattopadhyay
45	246/17	Om Prakash Kumar	Study of impact in the hardness and microstructure of aluminium alloys on addition of copper and magnesium	Dr. Tapabrata Maity
46	247/17	Rohika Kumari	Plasticity without dislocation in a polycrystalline intermetallic	Dr. Ratnesh Kumar Gupta
47	248/17	Sudhanshu Kumar	Electroslag refining of steel	Dr. B. Mallik
48	249/17	Jyotiman Barman	Quality control	Prof. Koushik Sikdar
49	250/17	Marripati Hemanth	Nano materials synthesis	Mr. Koushik Sikdar
50	253/17	Anugrah Fedric Kujur	Development of tungsten dispersed copper composite for electrical application	Mr. Koushik Sikdar
51	254/17	Nenavath Kubbu Nayak	Verious type of heat treatment	Dr. Tapabrata Maity
52	255/17	Amaladasu Jagadesh Lakshimipathi	Nano technology	Mr. Koushik Sikdar
53	256/17	Ashish Kumar	Fascinating shape memory alloys	Mr. Koushik Sikdar
54	257/17	Ranjit Kumar	Recent advancement in radiography testing and technique	Dr. B. Mallik
55	239/16	Guguloth Rakesh	Forging defects , causes and its remedies	Dr. B. Mallik
56	114/15	Mangalagiri Rajesh	Mechanical properties of aluminum - copper composite metallic materials	Dr. B. Mallik
57	121/15	Rajen Baraik	Forging defects , causes and its remedies	Dr. B. Mallik



GENERAL ADMINISTRATION

APPOINTMENT : NIL
RESIGNATION : NIL

RETIREMENT

Sl.No.	Name	Designation	Date of Retirement
1.	Dr. B. K. Chakraborty	Professor	30/09/2020

DEATH

Sl. No.	Name	Designation	Date of Death
1.	Shri Bhatu Oraon	Mali	08.11.2020

STAFF STRENGTH AS ON 31.03.2020

Director	01
Professor	16
Associate Professor	07
Assistant Professor	25
Registrar	01
Dy. Registrar	01
Sr. Medical Officer	01
Librarian Sr.	01
Accountant	01
Assistant Registrar	02
Assistant Superintendent Workshop	01
Hindi Officer	01
Sr. Technical Assistant	03
Assistant	03
Upper Division Clerk	04
LDC/Typist	01
Technician Gr. "A"	01
Technician Gr. "B"	05
Peon	04
Laboratory Attendant	05
Sweeper	01
Cook	02
Total :	87





LIBRARY AND DOCUMENTATION CENTRE

EXISTING FACILITIES:

The Library and Documentation Centre of NIFFT rendering valuable services to the Institute and Users it has 51450 reading materials (Books, Journals, Standards, Transparencies, Slides, Video Cassettes and Microfilms etc.)

The Library is kept open from 09:00 AM to 10:00 PM on all Monday to Friday and Saturday & Sunday 09:00 A.M. to 05:30 P.M. The Centre provides Reading Facilities, Borrowing Facilities, References Services, Reprography Services, Inter Library Loan, Binding and Audio-Visual Facilities to its users. The Library has the following users viz, faculties, students and staff of the Institute and provides sitting space to about 100 people at a time.

NEW SERVICES:

1. Library is providing online access to e-resources through Elsevier B.V.
 - (i) **Science Direct Two Subject:-**
 - # Engineering
 - # Material Science
2. Centre Subscribed 61 nos. Print Journals,
3. **NEW ADDITION:-** The centre added 140 Books during the period.
4. **DOCUMENTATION BULLETIN WERE PROVIDED ON FOLLOWING TOPICS**
 - (i) Aluminium alloy Casting
 - (ii) Forging Practice & Heat Treatment
 - (iii) Moulding and Core Making Practice for Quality Casting
5. Renovation work of Toilet of library building has been completed.







HOSTELS

Residential facilities are provided to students in four boys' hostels and one girls' hostel. The detail about each hostel is provided below.

1. NiralaChatrawas
2. Homi J BhabaChatrawas
3. M.VisveshwarayaChatrawas
4. Jagdish Chandra Bose Chatrawas
5. Kalpana Chawla Chatrawas

Name Room	Hostel's Warden	Type of Hostel	Accommodation Types of
Nirala Chatrawas	Dr. Debdas Roy	Boys	150 Double/triple
H.J.B. Chatrawas	Mr. Vineet Chak	Boys	300 Double
M.V. Chatrawas	Dr. Ratnakar Das	Boys	176 Single
J.C.Bose Chatrawas	Mr. Ajit Kumar Pramanick	Boys	240 Single
Kalpana Chawla Single/double/triple Chatrawas	Dr. ParthaSarathi Mondal	Girls	100





INDUSTRIAL LIAISON CELL

COMMITTEE MEMBERS

Faculty	
Dr. K.K. Singh Professor Drpt. of Foundry Technology	Chairman
Dr. Subhankar Basu Assistant Professor Drpt. of Applied Science and Humanities	Member
Dr. Ratnesh Gupta Assistant Professor Drpt. of MME	Member
Dr. Umesh Khande Assistant Professor Drpt. of ME	Member Secretary

PLACEMENT 2020-21

Sl. No.	COMPANY	B.TECH.		ADVANCE DIPLOMA		M.TECH.			
		HIGHEST PAY- 7.95 LPA		HIGHEST PAY- 3.4 LPA		HIGHEST PAY- 4.25 LPA			
		AVERAGE PAY- 5.05 LPA		AVERAGE PAY- 3.2 LPA		AVERAGE PAY- 4.25 LPA			
		ME (19)	MME (57)	FOUNDRY (45)	FORGE (44)	FFT (14)	ME (13)	EE (9)	MSE (4)
1	VEDANTA		12	-	-	-	-	-	-
2	ANUGRAHA VALVES	-	6		-	-	-	-	-
3	FRONTIER ALLOYS	4	2	-	-	-	-	-	-
4	SHIVAM AUTOTECH	1	4			-	3	-	-
5	HIMCAST			3		1	-	-	-
6	SYNERGY GREENS		2	-	-		-	-	-
7	KSB PUMPS		1	-		-	-	-	-
8	MPR REFRACTORIES	-	3	-		-	-	-	-
9	BONFIGIOLI		-	-	-	2	-	-	-
10	VIRAJ	2	4	-	-	-	-	-	-
19	VISHAWAKARMA AUTO	-	-	5	-	-	-	-	-

Sl. No.	COMPANY	B.TECH.		ADVANCE DIPLOMA		M.TECH.			
		HIGHEST PAY-7.95 LPA		HIGHEST PAY- 3.4 LPA		HIGHEST PAY- 4.25 LPA			
		AVERAGE PAY- 5.05 LPA		AVERAGE PAY- 3.2 LPA		AVERAGE PAY- 4.25LPA			
		ME (19)	MME (57)	FOUNDRY (45)	FORGE (44)	FFT (14)	ME (13)	EE (9)	MSE (4)
20	RKFL				8				
21	SYNERGY CASTING			13	14				
22	SHIVAM AUTOTECH				5				
23	PD FORGE	-	-		3	-	-	-	-
24	TALBROS	-	-		5		-	-	-
25	WALIA AUTO				5				
26	KISAAN STEEL				2				
27	NATRAJ CASTING			3					
28	CNF CASTING			4					
29	RAJASTHAN UDYOG			3					
30	EASTERN ALLOYS			4					
31	SONACOMSTAR	2	2						
32	GOVIND STEEL			3					
33	VISA STEEL		2						
34	ANAND POWER	2							
35	TVS BRAKES INDIA	1							
36	SYNERGY GREENS		2						
37	KPMG	1							
38	ERNST & YOUNG	1							
39	JSW		2						
40	L&T		1						
41	RAUSHEENA GROUP			2					
42	VISION TECH							2	
43	HAPPY FORGINGS				6				
44	WELSPUN	5	3						
45	KIRLOSKAR KBL		4						
46	UMA SHAKTI STEEL			4					
47	HIGHER EDUCATION /GOV JOB		7	1		5	6	5	1
	STUDENTS PLACED	19/19.	57/57	45/45	44/44	8/14.	9/14.	7/9.	1/4.
	PLACEMENT PERCENTAGE	100%	100%	100%	100%	57%	65%	77%	25%





NIFFT STUDENT'S GYMKHANA

COMMITTEE MEMBERS

Dr. Shubhankar Basu Assistant Professor Drpt. of Applied Science and Humanities	Chairman
Dr. Ratnakar Das Assistant Professor Drpt. Of ME	Member
Dr. Vikash Gupta Assistant Professor Drpt. of Applied Science and Humanities	Member
Dr. Sriparna Chattopdhyay Assistant Professor Drpt. of Applied Science and Humanities	Member
Sri Sudhir Kumar	Member Secretary

Following were the events that took place in the session 2020-2021 by NIFFT Student's Gymkhana :-

1. Independence day cultural programme.
2. 26 January, Republic Day celebrations.



HINDI CELL

Hindi Cell of the Institute is working in accordance with official language policy of Govt. of India and annual programme issued there under. The activities of Hindi Cell during the years were as follows:

- 1) 4 nos of online Hindi workshop organized for employees.
- 2) Translation & typing of circular/notice/reports etc.
- 3) Hindi cell is providing translation facilities to various department/section as and when required.
- 4) The Institute has regular representation in the meetings of TOLIC
- 5) Hindi cell is working as reference centre for various department/section in the matter of official language, provide information on various aspects of O.L. art/rule.
- 6) Compilation and proof readings of Annual Report
- 7) Hindi Officer contributed in the follows Committees :-
 - Bid Opening Committee
 - Nodal Officer RTI
 - Annual Report Committee
 - Committee on sexual harassment against women
 - Committee for selection of Gender champion
 - Member EBSB Committee
 - In-charge Director Section







MAULANA ABUL KALAM AZAD UNIVERSITY OF TECHNOLOGY, WB

in association with

NATIONAL INSTITUTE OF FOUNDRY & FORGE TECHNOLOGY, GoI

CORDIALLY INVITES YOU TO



A WEBINAR on

Thursday, 25 June 2020, 10AM - 12PM

Theme: **ENGINEERING SKILLS FOR THE YEAR 2020 AND BEYOND**

WHO SHOULD ATTEND:
Students, Teachers
and Practitioners of
Engineering across All
Disciplines

WHY:
To Learn How to
Adapt Successfully to
the Post-Covid
World of Professions.

INAUGURAL SPEECH



Prof. (Dr) Saikat Maitra
Hon'ble Vice Chancellor,
MAKAUT, WB

KEYNOTE SPEECH



Prof. (Dr) Partha P.
Chattopadhyay
Director, NIFFT, GoI

Organized by-
Department of Materials
Science & Technology,
School of Natural & Applied
Sciences, MAKAUT, WB



Prof. (Dr) Sukhendu
Samajdar
Director, Nat & Appld Sci
MAKAUT



Prof. (Dr) Amitabha Sinha
Director, Academic Reform
MAKAUT



Eng. KP Das
Hony. Secretary
Institution of Engineers
(India)



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Asst. Prof., MAKAUT
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monalisa.char@gmail.com

Registration Open:

<https://bit.ly/3dqhtLN>

Mail us : makautwebinar@gmail.com



National Institute of Foundry & Forge Technology

**A Centrally Funded Technical Institute under MHRD
(Govt, of India)**

HATIA, RANCHI- 834003 (JHARKHAND)



Statement of Accounts

For the Financial Year 2020-21

**(As per Revised Formats of Financial Statements for
Central Higher Educational Institutions)**

**Audited by
M/s Kumar Vikash & Company
(Chartered Accountants)
Ranchi**



National Institute of Foundry & Forge Technology

Statement of Accounts

For the Financial Year 2020-21

CONTENTS

Sl. No.	PARTICULAR	Page No.
1	Balance Sheet as on 31.03.2021	60
2	Schedule forming part of Balance Sheet (1 to 5)	61 - 70
3	Income & Expenditure A/c for the FY 2020-21	71
4	Schedules Forming Part of Income & Expenditure account (6 to 15)	72
5	Receipts & Payments Accounts for the FY 2020-21	-
6	Schedules Forming Part of Receipts & Payments account (16 to 26)	-
7	Bank Reconciliation Statements	-
8	General Provident Fund Account for the FY 2020-21	-
9	Technical Education Quality Improvement Programme Account for the FY 2020-21	-



NATIONAL INSTITUTE OF FOUNDRY AND FORGE TECHNOLOGY

HATIA, RANCHI-834003

BALANCE SHEET AS ON 31st March, 2021

SOURCES OF FUNDS	Schedule	Current Year 2020-21	Previous Year 2019-20
CORPUS/CAPITAL FUND	1	1,15,05,09,184.78	1,10,38,23,585.65
CURRENT LIABILITIES	2	13,30,46,427.88	31,43,19,063.70
HEFA LOAN	2 (A)	5,45,97,502.00	2,13,45,881.00
EARNMARKED FUND	2 (B)	75,66,877.40	-
TOTAL		1,34,57,19,992.06	1,43,94,88,530.35

APPLICATION OF FUNDS	Schedule	Current Year 2020-21	Previous Year 2019-20
FIXED ASSETS	3	28,52,66,048.53	14,61,20,395.37
a) Tangible Assets		70,62,38,473.00	78,03,83,547.00
b) Capital work-In-Progress		2,59,00,294.73	95,98,691.00
c) Intangible Assets	4	15,77,59,361.60	34,77,54,826.92
CURRENT ASSETS	5	17,05,55,814.20	15,56,31,070.06
LOANS, ADVANCES & DEPOSITS		1,34,57,19,992.06	1,43,94,88,530.35
TOTAL		1,34,57,19,992.06	1,43,94,88,530.35

AS INTERNAL AUDITOR
For M/s Mannohan Singh & Co.



CA J. P. Shrivastava
(Partner)
M.NO. 402655

(Signature)
Deputy Registrar

(Signature)
Director

SCHEDULE - 1 - CORPUS/CAPITAL FUND

Particulars	Current Year	Previous Year
Balance at the beginning of the year	1,10,38,23,585.65	1,21,27,38,608.94
Add: Contributions towards Corpus/Capital fund	-	-
Add: Grants from UGC, Govt. of India, state Government to the extent utilised for capital expenditure	6,70,06,000.00	12,76,44,000.00
Add: Assets Purchased out of Earmarked Funds	-	-
Add: Assets Purchased out of Sponsored Projects, where ownership vests in the institution	-	-
Add: Assets Donated / Gifts Received	-	-
Add: Others Additions (Building appreciation)	-	-
Less: Others Deduction (Custom Duty paid during the FY 2016-17 for SERB Project new)	-	-
Add: Excess of Income over Expenditure transferred from the Income & Expenditure Account	(2,03,20,400.87)	1,41,19,976.71
TOTAL	1,15,05,09,184.78	1,35,45,02,585.65
Deduct: Deficit transferred from Income & Expenditure Account	-	-
Deduct: Amount reversed during the year based on CAG observation	-	25,06,79,000.00
Balance at the year end	1,15,05,09,184.78	1,10,38,23,585.65





SCHEDULE - 2 - CURRENT LIABILITIES

CURRENT LIABILITIES		FY 2020-21	FY 2019-20
1	Deposit From Staff	13,81,772.00	14,46,743.00
2	Deposit From Student		
a	Caution Money	78,91,003.50	65,65,853.50
b	Unclaimed fees	-	7,38,550.00
3	Deposit-Others		
a	Earnest Money	57,03,591.00	9,36,841.00
b	Security Deposit	1,74,738.30	1,74,738.30
4	Statutory Liabilities		
a	LIC Premium	7,753.40	6,700.40
b	TDS U/s 192A	1,23,554.00	5,88,469.00
c	TDS U/s 194C	81,865.00	36,476.00
d	TDS U/s 194I	5,475.00	(9,139.00)
e	GPF Deduction from Salary	-	31,60,000.00
f	Employees Loan Repayment	19,607.00	19,607.00
g	Professional Tax on Salary	72,874.00	46,821.00
h	New Pension Scheme (Employees Contribution)	17,314.00	17,313.00
i	New Pension Scheme (Employer Contribution)	1,04,581.00	1,04,580.00
j	GIS Premium	-	4,800.00
k	PF Deduction from Salary	7,68,585.00	5,81,831.00
5	Other Current Liability		
a	Receipt against Sponsored Projects (Annexure-I to Schedule-2)	77,21,784.00	69,47,829.00
b	Receipt against Sponsored Fellowship & Scholarship (Annexure-II to Schedule 2)	13,23,063.00	32,76,463.00
c	Other Liabilities		
a	Account Payable/ Receivable	2,23,441.00	2,23,441.00
b	AICTE	1,40,000.00	1,40,000.00
c	Grant From CBSE Board	50,000.00	50,000.00
d	M/s Total Library Solution	92,784.00	92,784.00
e	NIIFT Alumni Association	-	5,89,650.00
f	Provisional Expenses	2,20,07,701.00	3,08,89,350.00
g	Amount Payable to Manoj Kumar	45,000.00	45,000.00
h	Kumar Aman-Mess Fees	-	13,500.00
i	Amount Received From IIP Project A/c-2730101004765	10,99,915.50	11,23,915.50
j	Honorarium payable to CSAB	-	63,600.00
k	Unutilized Grant refundable to MOE	6,81,36,000.00	24,77,76,982.00
l	Interest Earned on Grant refundable to MOE	1,54,19,469.00	86,66,365.00
m	Amount Received from Unidentified Person	2,50,637.18	-
n	Deposit from CBI	1,70,000.00	-
o	UG & PG Summer Examination -2020	13,920.00	-
		13,30,46,427.88	31,43,19,063.70



(ANNEXURE-I TO SCHEDULE - 2) SPONSORED PROJECTS

Sr. No.	Name of the Project	Opening Balance		Receipts	Total	Expenditure	Closing Balance	
		Credit	Debit				Credit	Debit
1	2	3	4	5	6	7	8	9
1	Direct Admission of Students Abroad(DASA)	1,28,175			1,28,175		1,28,175	-
2	Project-Board of Research in Nuclear Science(BRNS)	16,39,363			16,39,363		16,39,363	-
3	Project-Science and Engineering Research Board(Old)	1,80,450			1,80,450		1,80,450	-
4	Project-Science & Engineering Research Board(New 1)	2,96,849			2,96,849		2,96,849	-
5	Project-Science & Engineering Research Board(S.Basu)	84,061		6,35,845	7,19,906	5,53,150	1,66,756	
6	Technical Education Quality Improvement Programme	18,704			18,704		18,704	-
7	Buriapur Surgical Cluster, MSME (West Bengal)	11,88,594		3,99,959	15,88,553	10,88,553	5,00,000	-
8	Unnat Bharat Abhiyan	95,906			95,906	95,906	-	-
9	Science Research Engineering Board (P.S.Mondal)	28,46,632		78,960	29,25,592	2,43,200	26,82,392	
10	Project Development Institute-Nigeria	4,69,095			4,69,095		4,69,095	
11	Science Research Engineering Board (D.Roy)	-		16,40,000	16,40,000		16,40,000	
	Total	69,47,829	-	27,54,764	97,02,593	19,80,809	77,21,784	-

(ANNEXURE-II SCHEDULE - 2) SPONSORED FELLOWSHIP AND SCHOLARSHIPS

Sr. No.	Name of the Project	Opening Balance		Receipts	Total	Expenditure	Closing Balance	
		Credit	Debit				Credit	Debit
1	2	3	4	5	6	7	8	9
1	Govt. of India SC/ST Scholarship	22,74,200		4,09,600	26,83,800	26,29,100	54,700	-
2	S N Sinha Memorial Scholarship	5,000		-	5,000	-	5,000	-
3	State Scholarship for Students	9,97,263		13,05,350	23,02,613	10,46,750	12,55,863	-
4	Scholarship from Mahindra & Mahindra Ltd.	-		7,500	7,500	-	7,500	
	Total	32,76,463	-	17,22,450	49,98,913	36,75,850	13,23,063	-





SCHEDULE - 2 (A) HEFA LOAN

Particulars		FY 2020-21	FY 2019-20
1	Opening Balance	2,13,45,881.00	-
2	Add: Loan from HEFA (Amount directly paid to CPWD)	6,00,00,000.00	2,13,45,881.00
3	Add: Loan from HEFA (Amount directly paid to Supplier)	40,71,621.00	-
4	Add: Interest charged by HEFA	24,71,906.00	-
5	Less: Principal Installment Paid to HEFA Against Loan	3,08,20,000.00	-
6	Less: Interest paid to HEFA	24,71,906.00	-
Closing Balance (1+2+3+4-5-6)		5,45,97,502.00	2,13,45,881.00



SCHEDULE - 2(B) - EARNMARKED FUND

Sr. No.	Name of the Project	Opening Balance	Receipts	Total	Expenditure	Closing Balance
1	2	3	4	5(3+4)	6	7(5-6)
1	Earnmarked Fund for CISD Committee	-	25,00,000.00	25,00,000.00	41,700.00	24,58,300.00
2	Earnmarked Fund for NIFFT Alumni Cell	-	15,76,959.40	15,76,959.40	-	15,76,959.40
3	Earnmarked Fund (IRG)	-	35,31,618.00	35,31,618.00	-	35,31,618.00
	Total	-	76,08,577.40	76,08,577.40	41,700.00	75,66,877.40





SCHEDULE - 3 - PLAN FIXED ASSETS

Sl. No	Assets Heads	Rate of Depreciation (%)	Gross Block			Depreciation for the Year			Net Block	
			Opening Balance 01.04.2020	Additions	Deduction	Closing Balance	Depreciation OB	Year	Total Depreciation	As on 31.03.2021
1	2	3	4	5	6	7=4+5-6	8	9	10=8+9	11=12+5-6+9
1	Land	0%	-	-	-	-	-	-	-	12
2	Site Development	0%	-	-	-	-	-	-	-	-
3	Buildings (New)	2%	-	13,90,95,685.00	-	13,90,95,685.00	-	27,81,913.90	27,81,913.90	13,63,13,781.10
4	Building (Old)	2%	16,65,43,007.73	-	-	16,65,43,007.73	6,28,68,858.25	33,30,860.03	6,61,98,718.28	10,03,43,283.45
5	Roads & Bridges	2%	-	-	-	-	-	-	-	-
6	Sewerage & Drainage	2%	-	-	-	-	-	-	-	-
7	Electrical Installation and Equipment	5%	12,25,28,261.97	-	-	12,25,28,261.97	11,76,71,939.12	48,34,028.12	12,25,05,967.24	-
8	Plant & Machinery	5%	35,07,236.00	2,84,954.00	-	37,92,190.00	3,60,871.55	1,89,609.50	5,50,481.05	32,81,708.95
9	Scientific & Laboratory Equipment	8%	1,17,71,950.00	24,44,467.00	-	1,42,16,417.00	18,21,949.44	11,37,313.36	29,59,262.80	99,50,000.56
10	Office Equipment	7.5%	21,76,495.36	40,87,575.00	-	62,64,070.36	16,47,760.87	3,54,170.75	20,01,911.52	42,62,138.74
11	Audio Visual Equipment	7.5%	5,86,259.00	24,648.00	-	6,10,907.00	1,35,892.36	45,818.50	1,81,710.86	4,50,366.64
12	Computers & Peripherals	20%	1,18,43,064.00	1,04,00,430.00	-	2,22,43,494.00	37,28,025.80	44,46,378.80	81,74,404.60	81,15,038.20
13	Furniture, Fixtures & Fittings	7.5%	2,48,20,570.89	1,92,170.00	-	2,50,12,690.89	2,28,14,518.56	1,95,371.33	2,30,09,889.89	19,96,753.64
14	Vehicles	10%	65,63,829.00	-	-	65,63,829.00	38,01,591.90	4,72,811.00	42,74,802.90	27,61,837.10
15	Lib. Books & Scientific Journals	10%	11,03,66,349.58	14,70,155.00	-	11,18,36,504.58	10,10,16,926.88	11,31,187.20	10,21,48,114.08	89,66,754.40
16	Tube wells & Water Supply	2%	4,20,250.00	-	-	4,20,250.00	16,817.00	8,405.00	25,222.00	4,03,433.00
17	Small Value Assets	100%	-	-	-	-	-	-	-	-
18	Equipment UNESCO AID	8%	24,97,217.00	-	-	24,97,217.00	24,97,217.00	-	24,97,217.00	-
Total (A)			46,96,24,484.83	15,80,00,044.00	-	62,16,24,528.83	31,83,82,768.73	1,89,27,867.49	33,73,10,636.22	28,34,63,911.12
18	Capital work in Progress (B)	-	78,03,83,547.00	7,21,90,765.00	14,63,35,839.00	70,62,38,473.00	-	-	-	70,62,38,473.00
Total (A+B)			1,25,00,08,031.83	22,01,90,809.00	-	1,32,02,06,811.83	-	-	-	99,01,02,384.12

Sl. No	Intangible Assets	Rate of Depreciation (%)	Gross Block			Depreciation for the Year			Net Block	
			Opening Balance 01.04.2020	Additions	Deduction	Closing Balance	Depreciation OB	Year	Total Depreciation	As on 31.03.2021
19	Computer Software	40%	-	1,66,58,494.00	-	1,66,58,494.00	-	66,63,397.60	66,63,397.60	99,95,096.40
20	E-Journals	40%	3,64,63,322.00	2,17,14,282.00	-	5,81,77,604.00	2,68,64,831.00	1,54,21,108.00	4,22,85,739.00	95,98,691.00
21	Patents	9 Years	-	-	-	-	-	-	-	-
Total (C)			3,64,63,322.00	3,83,72,776.00	-	7,48,36,098.00	2,68,64,831.00	2,20,84,505.60	4,89,49,136.60	95,98,691.00
Grand Total (A+B+C)			1,29,04,71,363.83	26,85,63,586.00	14,63,35,839.00	1,40,26,99,099.83	34,52,47,599.73	4,10,12,373.09	38,62,59,772.82	1,01,55,89,348.52



SCHEDULE - 3 (A) NON PLAN FIXED ASSETS

S.No	Assets Heads	Rate of Depreciation (%)	Gross Block		Depreciation for the Year			Net Block	
			Opening Balance 01.04.2020	Additions	Closing Balance	Depreciation OB	Depreciation for the Year	As on 31.03.2021	As on 31.03.2020
1	2	3	4	5	6=4+5	7	8	9=7+8	11
1	Land	0%	-	-	-	-	-	-	-
2	Site Development	0%	-	-	-	-	-	-	-
3	Buildings	2%	-	-	-	-	-	-	-
4	Roads & Bridges	2%	-	-	-	-	-	-	-
5	Tube wells & Water Supply	2%	1,17,495.00	-	1,17,495.00	11,749.50	2,349.90	1,03,395.60	1,05,745.50
6	Sewage & Drainage	2%	-	-	-	-	-	-	-
7	Electrical Installation and Equipment	5%	-	-	-	-	-	-	-
8	Plant & Machinery	5%	65,737.00	4,000.00	69,737.00	15,606.75	3,486.85	19,093.60	50,643.40
9	Office Equipment	7.5%	1,40,600.00	3,85,896.00	5,30,496.00	40,095.75	39,787.20	79,882.95	4,50,613.05
10	Audio Visual Equipment	7.5%	2,68,790.00	24,950.00	2,93,740.00	1,00,796.25	22,030.50	1,22,826.75	1,70,913.25
11	Computers & Peripherals	20%	30,83,881.00	2,56,292.00	33,40,173.00	19,17,807.80	6,57,796.80	25,75,604.60	7,64,568.40
12	Furniture, Fixtures & Fittings	7.5%	88,171.00	85,877.00	1,74,048.00	30,315.68	13,053.60	43,369.28	1,30,678.71
13	Vehicles	10%	-	-	-	-	-	-	-
14	Lib. Books & Scientific Journals	10%	58,520.00	67,537.00	1,26,057.00	15,830.10	12,605.70	28,435.80	97,621.20
15	Scientific & Laboratory Equipment	8%	49,560.00	-	49,560.00	11,894.40	3,964.80	15,859.20	33,700.80
16	Small Value Assets	100%	-	-	-	-	-	-	-
Total (A)			38,72,754.00	8,28,552.00	47,01,306.00	21,44,096.23	7,55,075.35	28,99,171.58	18,02,134.41
18	Capital work in Progress	(B)	-	-	-	-	-	-	-
Intangible Assets			Gross Block		Depreciation for the Year			Net Block	
S.No		Rate of Depreciation	Opening Balance 01.04.2020	Additions	Closing Balance	Depreciation OB	Depreciation for the Year	Total Depreciation	As on 31.03.2021
19	Computer Software	40	-	-	-	-	-	-	-
20	E-Journals	40	-	-	-	-	-	-	-
21	Patents	9 Years	-	15,000.00	15,000.00	-	1,666.67	1,666.67	13,333.33
Total (C)			-	15,000.00	15,000.00	-	1,666.67	1,666.67	13,333.33
Grand Total (A+B+C)			38,72,754.00	8,43,552.00	47,16,306.00	21,44,096.23	7,56,742.02	29,00,838.25	18,15,467.74
									17,28,657.76





SCHEDULE - 4 - CURRENT ASSETS

		PARTICULAR	FY 2020-21	FY 2019-20
1	Sundry Debtors:			
a	Debts outstanding for a period exceeding six months		5,14,152.68	5,14,152.68
2	Cash and Bank Balances			
a	In Saving Accounts			
i	Canara Bank SB A/c No. 2730101006939 (IRG)		3,39,54,957.00	3,56,02,216.62
ii	Canara Bank SB A/c No. 273010109959 (Closed)		-	1,127.00
iii	SBI Hatia SB A/c No.-11026359877 (O.B) (Closed)		-	3,344.10
iv	Canara Bank SB A/c No. 2730101011451 (OH-31)		5,07,28,264.02	6,94,28,890.02
v	Canara Bank SB A/c No. 2730101011452 (OH-36)		4,79,04,567.50	14,52,91,757.50
vi	Canara Bank SB A/c No. 2730101011453 (OH-35)		19,44,504.00	7,84,32,890.00
vii	Canara Bank SB A/c No. 2730101012429 (SERB Project II)		43,58,368.00	28,46,632.00
viii	Canara Bank SB A/c No. 273010101011923 (SERB Project I)		1,73,281.00	1,75,472.00
ix	Canara Bank Escrow A/c -2730101012032 (Principal Payment Account)		1,59,07,334.00	1,54,09,982.00
x	Canara Bank Escrow A/c -2730101012033 (Interest Payment Account)		65.00	-
xi	Canara Bank Escrow A/c -2730101012029 (Fees Receivable Account)		-	-
xii	Canara Bank Escrow A/c -2730101012031 (Grant Receivable Account)		-	-
xiii	Canara Bank A/c No. -2730101001031 (Allumni Cell)		45,585.40	-
xiv	Canara Bank SB A/c No. 2730101012610 (Online)		12,78,316.00	-
3	Cash			
a	Cash in hand		30.00	48,363.00
4	Allumni Fund Investment			
	FDR/2730401001400/10		1,60,823.00	-
	FDR/2730401001401/10		1,31,148.00	-
	FDR/2730401001697/4		5,19,853.00	-
5	TDS Receivable		1,38,113.00	-
TOTAL			15,77,59,361.60	34,77,54,826.92



SCHEDULE - 5 - LOANS, ADVANCES & DEPOSITS

		FY 2020-21	FY 2019-20
1	Advances to Employees: (Non Interest Bearing)		
a	Expenses Advance	7,05,190.00	10,26,063.00
b	Festival Advance	-	900.00
c	Leave Travel Concession Advance	6,46,243.00	65,222.00
d	Medical Advance	13,99,788.00	2,69,671.00
e	Travelling Advance	66,868.00	98,970.00
f	Rolling Advance	2,68,589.00	4,62,092.00
g	CPDA Advance	5,60,698.00	2,94,000.00
2	Advances to Employees: (Interest Bearing)		
a	Computer Advance	2,26,794.00	2,11,994.00
b	Car/Motorcycle/Scooter Advance	28,000.00	56,170.00
3	Advances & Other amounts Recoverable		
I	Institute Activities		
a	NIFT-Golden Jubilee Celebration	20,10,199.33	20,10,199.33
b	Contribution to Annual Feast-JLINKS	24,80,000.00	24,80,000.00
c	SBI online A/c -36228721268 (Old)	13,10,662.20	13,10,662.20
d	Advance to NIFT Student's Gymkhana	60,000.00	60,000.00
e	SBI online A/c -38979437865 (New)	26,565.14	2,42,423.00
II	Advance to Suppliers		
a	M/s Ed.CIL (India) Ltd. (for Campus Wide Networking)	13,53,195.00	13,53,195.00
b	M/s National Informatic Centre	3,29,29,545.00	3,29,07,670.00
c	M/s Patents Info	15,000.00	15,000.00
d	M/s Sreeleathers	3,235.00	3,235.00
e	Central Public Works Department (CPWD) ✓	11,61,23,558.00	10,12,61,123.00
f	Advance to SPIC Macy	10,000.00	-
g	Advance paid to Sharda Services	9,204.00	-
4	Prepaid Expense		
a	Pre Paid Internet Expenses	-	11,80,000.00





Contd..

FY 2020-21		FY 2019-20
S	Deposit with suppliers	
I	Telephone	
a	Security Deposit With P&T Department	29,550.00
II	Electricity	
a	Security Deposit With Jharkhand Electricity Board	12,15,000.00
III	Medical	
a	M/s. Mecon Ltd.	5,00,000.00
IV	Academic	
a	AICTE	1,88,047.00
b	Security Deposit With Ranchi University	2,50,000.00
V	Others	
a	CBI Attachment	5,54,613.00
b	Security Deposit & Earnest Money (O.B.)	2,16,707.00
c	SBI (FDR) Scholar Fund	23,378.00
d	Security Deposit With Jayant Gas Co.	32,501.00
e	Student Welfare Fund	21,563.00
f	Deposits Against Foreign Letter of Credit with Canara Bank	65,21,899.53
VI	Income Accrued:	
a	On Advance to Employees	14,143.00
VII	Claims Receivable	
a	Amount Receivable from M.tab	1,80,000.00
b	Amount Receivable from Pensioners	56,450.00
c	Income Tax (TDS) Refundable-Unrealized	4,96,476.00
d	Rent Receivable from BSNL	21,000.00
e	TDS - Unrealized	1,153.00
		17,05,55,814.20
		15,56,31,070.06



NATIONAL INSTITUTE OF FOUNDRY & FORGE TECHNOLOGY

HATIA, RANCHI-834003

INCOME AND EXPENDITURE ACCOUNT FOR THE YEAR ENDED ON 31ST MARCH, 2021

INCOME	Schedule	Current Year 2020-21	Previous Year 2019-20
ACADEMIC RECEIPTS	6	2,02,17,165.00	3,36,90,522.00
GRANTS (OH-31 and OH-36 from MOE)	7	29,20,47,982.00	32,48,58,018.00
INCOME FROM INVESTMENT	8	-	-
INTEREST EARNED	9	89,595.00	11,06,160.00
OTHER INCOME	10	19,62,943.20	31,41,655.02
TOTAL(A)		31,43,17,685.20	36,27,96,355.02
EXPENDITURE	Schedule	Current Year 2020-21	Previous Year 2019-20
STAFF PAYMENT & BENEFITS (Establishment Expenses)	11	24,30,67,810.00	24,71,28,164.00
ACADEMIC EXPENSES	12	2,60,54,737.00	3,56,15,739.00
ADMINISTRATIVE AND GENERAL EXPENSES	13	2,13,83,087.96	3,11,11,172.00
TRANSPORTATION EXPENSES	14	4,30,193.00	9,50,756.00
REPAIR & MAINTENANCE EXPENSES	15	19,33,143.00	1,00,52,187.00
DEPRECIATION	3	4,17,69,115.11	2,38,18,360.31
TOTAL(B)		33,46,38,086.07	34,86,76,378.31
Balance Being Surplus/(Deficit) Carried to Capital Fund (A-B)		(2,03,20,400.87)	1,41,19,976.71

For M/s Mannohan Singh & Co.



CA J. P. Sharma
(Partner)
M. NO. 402655

(Signature)
Deputy Registrar

(Signature)
Director



SCHEDULE - 6 - ACADEMIC RECEIPTS

PARTICULAR		FY 2020-21	FY 2013-20
FEES FROM STUDENTS			
1 Academic			
a Admission Fee		74,800.00	55,400.00
b Application Fee		1,16,700.00	1,58,950.00
c Computer Fee		8,65,500.00	11,13,500.00
d Grade Card Fee		56,550.00	44,250.00
e Library Access Fee		8,65,500.00	11,84,500.00
f Registration/Enrolment Fee		1,91,800.00	2,56,400.00
g Seat Rent		73,800.00	22,44,600.00
h Tuition Fees		1,53,82,050.00	2,11,95,800.00
	Total (A)	1,76,26,700.00	2,62,53,400.00
2 Examinations			
a Examination Fee-Institute		4,34,600.00	5,79,450.00
b Examination Fee-Ranchi University		3,89,550.00	4,18,900.00
3 Examination Fees-Jharkhand Technical University		6,16,915.00	12,64,450.00
	Total (B)	14,41,065.00	22,62,800.00
3 Other Fees			
a Fines & Penalties		600.00	73,672.00
b Gymkhana Fee		2,59,050.00	3,34,950.00
c Hostel Fee		21,000.00	54,800.00
d Hostel Maintenance Fee (Establishment Charges)		1,23,000.00	37,44,000.00
e Identity Card Fee (Re-issued)		-	50.00
f Internet Access Fee		2,59,650.00	3,44,850.00
g Medical Fee		4,78,500.00	6,22,000.00
h Seminar/Thesis Fees		7,600.00	-
	Total (C)	11,49,400.00	51,74,322.00
	GRAND TOTAL (A+B+C)	2,02,17,165.00	3,36,90,522.00



SCHEDULE - 7 GRANTS

PARTICULAR	Govt. of India(MHRD)		FY 2020-21	FY 2019-20
	Plan*	Non Plan + C		
Grant Refundable to MHRD for 2019-20 reversed	6,70,06,000.00	18,07,70,982.00	18,07,70,982.00	15,60,29,000.00
Add: Receipts during the Year	-	17,94,13,000.00	17,94,13,000.00	34,96,00,000.00
Less: Amount Refundable to MHRD	-	6,81,36,000.00	6,81,36,000.00	18,07,70,982.00
Total			29,20,47,982.00	32,48,58,018.00

*For Information purpose only no part of Income & Expenditure

SCHEDULE - 8 - INCOME FROM INVESTMENTS

PARTICULAR	FY 2020-21	FY 2019-20
1 Interest on Term Deposit with Nationalized Bank	15,10,256.00	-
Less: Transfer to Interest Refundable to MOE	15,10,256.00	-
2 Interest accrued on Term Deposit but not received	-	-
Total	-	-

SCHEDULE - 9 - INTEREST EARNED

PARTICULAR	Plan	Non Plan	FY 2020-21	FY 2019-20
1. Interest on Saving Account with scheduled banks	16,41,119.00	36,01,729.00	52,42,848.00	97,14,930.00
Less: Interest earned on Govt. fund transferable to MHRD	16,41,119.00	36,01,729.00	52,42,848.00	86,66,365.00
2. Interest Earned as Income	-	-	-	10,48,565.00
3 Interest on Loans of Employees			89,595.00	57,595.00
Total (2+3)			89,595.00	11,06,160.00





SCHEDULE -10- OTHER INCOME

PARTICULAR	FY 2020-21	FY 2019-20
A. Income from Land & Buildings		
1. Electricity Charges Recovered	2,53,197.00	2,79,122.00
2. Rent Recovered	26,600.00	2,10,500.00
3. License Fee Recovered	5,06,118.00	4,19,555.00
4. Water Charges Recovered	1,325.00	1,301.00
Total (A)	7,87,240.00	9,10,478.00
B. Others		
1. Others Incomes		
a) Bus Charges Recovery	29,600.00	83,350.00
b) Certificate Verification & Transcript Fee	13,000.00	37,400.00
c) Photocopy Charges	-	180.00
2. Income From Consultancy	-	3,469.00
3. Misc. Receipts	2,22,252.20	1,838.02
4. Recruitment Fees	8,000.00	3,34,500.00
5. RTI Fees	80.00	404.00
6. Mess Fees	12,300.00	-
7. Insurance Claim of Vehicles	16,791.00	-
8. Triable Area Allowance Recovery	8,73,680.00	17,17,711.00
9. Overhead from Project	-	52,325.00
Total (B)	11,75,703.20	22,31,177.02
Grand Total (A+B)	19,62,943.20	31,41,655.02



SCHEDULE - 11 - STAFF PAYMENTS & BENEFITS (ESTABLISHMENT EXPENSES)

PARTICULAR	FY 2020-21			FY 2019-20		
	Plan	Non Plan	Total	Plan	Non Plan	Total
1. Salaries and Wages						
a) Salaries and Wages (Teaching & Non Teaching)	-	13,32,72,526.00	13,32,72,526.00	-	12,36,87,258.00	12,36,87,258.00
b) Salary Arrear	-	5,50,080.00	5,50,080.00	-	1,17,38,402.00	1,17,38,402.00
	-	1,86,516.00	1,86,516.00	-	1,93,424.00	1,93,424.00
2. Allowance and Bonus						
3. Retirement and Terminal Benefits						
a) Composite Transfer/TA Grant	-	2,93,945.00	2,93,945.00	-	2,46,597.00	2,46,597.00
b) Encashment of Leave	-	47,60,403.00	47,60,403.00	-	12,57,132.00	12,57,132.00
c) Leave Salary & Pension Contribution	-	4,51,962.00	4,51,962.00	-	11,81,077.00	11,81,077.00
d) Other Retirement Benefit	-	-	-	-	1,74,000.00	1,74,000.00
e) Payment of Gratuity	-	32,36,052.00	32,36,052.00	-	5,15,532.00	5,15,532.00
f) Pension	-	5,18,28,664.00	5,18,28,664.00	-	4,98,57,743.00	4,98,57,743.00
g) Commutation	-	38,58,658.00	38,58,658.00	-	7,37,460.00	7,37,460.00
h) Arrear to Pensioner	-	6,14,582.00	6,14,582.00	-	1,89,09,483.00	1,89,09,483.00
4. Leave Travel Concession facilities	-	36,00,961.00	36,00,961.00	-	15,84,347.00	15,84,347.00
5. Medical Facility	-	32,91,491.00	32,91,491.00	-	23,94,626.00	23,94,626.00
6. Children Education Allowance	-	13,50,000.00	13,50,000.00	-	29,82,881.00	29,82,881.00
7. Honorarium	-	2,88,438.00	2,88,438.00	-	1,24,165.00	1,24,165.00
8. Telephone Facility	-	76,753.00	76,753.00	-	-	-
9. Payment to Adhoc Staff						
a) Consultants & Contractual Staff	-	8,18,079.00	8,18,079.00	-	8,96,395.00	8,96,395.00
b) Salary-System Administrator	-	6,44,001.00	6,44,001.00	-	5,63,036.00	5,63,036.00
c) Salary-Lab Staff's	-	2,13,832.00	2,13,832.00	-	6,67,104.00	6,67,104.00
d) Indian Allied Security-Manpower Supply	-	53,70,018.00	53,70,018.00	-	1,89,85,646.00	1,89,85,646.00
e) Bombay Intelligence Security-Sweeping & Cleaning	-	44,79,812.00	44,79,812.00	-	98,35,769.00	98,35,769.00
f) Salary-Physical Trainer	-	45,080.00	45,080.00	-	15,660.00	15,660.00
g) Account-Supervisor	-	4,20,000.00	4,20,000.00	-	4,24,483.00	4,24,483.00
h) Salary-cultural and health activity instructor's	-	59,376.00	59,376.00	-	50,944.00	50,944.00
i) Salary-Security Supervisor	-	4,20,001.00	4,20,001.00	-	1,05,000.00	1,05,000.00
j) Salary-Academic Assistant	-	1,11,111.00	1,11,111.00	-	-	-
k) Salary-Admin Supervisor	-	1,65,000.00	1,65,000.00	-	-	-
l) Everest Human Resource-Manpower Supply	-	1,24,99,888.00	1,24,99,888.00	-	-	-
m) Bull Fighter Security-Manpower Supply	-	1,01,60,581.00	1,01,60,581.00	-	-	-
TOTAL	-	24,30,67,810.00	24,30,67,810.00	-	24,71,28,164.00	24,71,28,164.00





SCHEDULE - 12 - ACADEMIC EXPENSES

PARTICULAR	FY 2020-21			FY 2019-20		
	Plan	Non Plan	Total	Plan	Non Plan	Total
1. Examination Expenses	-	6,53,600.00	6,53,600.00	-	21,07,200.00	21,07,200.00
2. Payment to Visiting Faculty	-	2,24,240.00	2,24,240.00	-	12,18,291.00	12,18,291.00
3. Stipend /Merit Cum Means Scholarship	-	-	-	-	-	-
a) Merit-Cum-Means Scholarship	-	12,58,000.00	12,58,000.00	-	13,26,000.00	13,26,000.00
b) Scholarship to M.Tech Students	-	99,20,000.00	99,20,000.00	-	1,98,43,578.00	1,98,43,578.00
c) Stipend to Advanced Diploma Course Students	-	25,70,000.00	25,70,000.00	-	39,66,750.00	39,66,750.00
d) Stipend to PhD Scholars	-	50,42,367.00	50,42,367.00	-	33,47,250.00	33,47,250.00
4. Student Welfare Expenses	-	-	-	-	-	-
a) NIFFT Clinic Expenses	-	1,58,380.00	1,58,380.00	-	77,637.00	77,637.00
b) Student Medical Reimbursement	-	-	-	-	1,33,252.00	1,33,252.00
c) Students Recreation Activities	-	28,870.00	28,870.00	-	2,73,077.00	2,73,077.00
d) Medical Insurance of Students	-	4,59,020.00	4,59,020.00	-	4,13,000.00	4,13,000.00
5. Laboratory & Workshop Expenses	-	6,55,159.00	6,55,159.00	-	21,63,063.00	21,63,063.00
6. Participation in Seminar & Conferences	-	3,91,420.00	3,91,420.00	-	5,86,889.00	5,86,889.00
7. Seminar/Workshop/Conference Expenses	-	1,32,486.00	1,32,486.00	-	79,397.00	79,397.00
8. Other Academic Expenses	-	5,23,893.00	5,23,893.00	-	80,355.00	80,355.00
9. Deemed University Fees	-	15,00,000.00	15,00,000.00	-	-	-
10. Subscription/Membership Fees	-	32,580.00	32,580.00	-	-	-
11. Financial Assistance for Courses/Seminar	-	25,04,722.00	25,04,722.00	-	-	-
TOTAL	-	2,60,54,737.00	2,60,54,737.00	-	3,56,15,739.00	3,56,15,739.00



SCHEDULE - 13 - ADMINISTRATIVE AND GENERAL EXPENSES

PARTICULAR	FY 2020-21			FY 2019-20		
	Plan	Non Plan	Total	Plan	Non Plan	Total
A) Infrastructure						
a) Electricity & Power						
a) D.G. Set Fuel Expenses	-	2,80,077.00	2,80,077.00	-	7,40,430.00	7,40,430.00
b) Jharkhand Bijli Vitran Nigam Ltd.	-	65,71,327.00	65,71,327.00	-	87,69,823.00	87,69,823.00
b) Rent, Rates and Taxes						
a) Lease Rent to M/s HEC Ltd.	-	51,804.00	51,804.00	-	51,804.00	51,804.00
b) Municipal Tax	-	1,25,724.00	1,25,724.00	-	28,12,627.00	28,12,627.00
c) Solid Waste Collection Charges	-	5,00,000.00	5,00,000.00	-	-	-
B) Communication						
a) Telephone, Fax and Internet Charges						
a) M/s BSNL	-	5,50,325.00	5,50,325.00	-	3,57,843.00	3,57,843.00
b) Other Mobile & Landline	-	-	-	-	1,734.00	1,734.00
c) BSNL Internet Leased Line	-	11,80,000.00	11,80,000.00	-	11,80,000.00	11,80,000.00
d) Internet Charges-NICSI/Ernet	-	-	-	-	3,66,294.00	3,66,294.00
b) Postage & Stationery Expenses	-	25,146.00	25,146.00	-	64,783.00	64,783.00
C) Others Expenditure						
I) Advertisement & Publicity						
a) M/s Jagran Prakashan Ltd.	-	-	-	-	60,743.00	60,743.00
b) M/s Employment News	-	-	-	-	1,57,398.00	1,57,398.00
c) M/s Hindustan Media Ventures Ltd.	-	-	-	-	63,504.00	63,504.00
d) M/s. ABP Pvt. Ltd.	-	-	-	-	66,825.00	66,825.00
e) Ridge Advertisement Marketing Consultant	-	14,27,126.00	14,27,126.00	-	8,91,136.00	8,91,136.00

Contd...





PARTICULAR	FY 2020-21			FY 2019-20		
	Plan	Non Plan	Total	Plan	Non Plan	Total
I) Hospitality Expenses	-	4,17,272.00	4,17,272.00	-	26,26,873.00	26,26,873.00
III) Internal & CAG Auditor Remuneration	-	2,72,292.00	2,72,292.00	-	3,02,000.00	3,02,000.00
IV) Magazine/Journals/News Paper/Subscriptions	-	34,893.00	34,893.00	-	32,970.00	32,970.00
V) Printing & Stationary (Consumption)	-	7,70,723.00	7,70,723.00	-	7,36,976.00	7,36,976.00
VI) Rajbhasha Activities Expenses	-	6,000.00	6,000.00	-	45,110.00	45,110.00
VII) Security Expenses						
Jharkhand Home Guards		77,64,250.00	77,64,250.00		65,84,190.00	65,84,190.00
VIII) Sitting Charges for Meetings	-	2,67,000.00	2,67,000.00	-	3,68,040.00	3,68,040.00
IX) Travelling & Conveyance	-	2,96,568.66	2,96,568.66	-	33,71,264.00	33,71,264.00
X) Legal Expenses	-	99,450.00	99,450.00	-	1,37,500.00	1,37,500.00
XI) Bank Charges	-	10,300.30	10,300.30	-	9,219.00	9,219.00
XII) Celebration & other Activities Expenses		4,14,996.00	4,14,996.00		5,49,109.00	5,49,109.00
XIII) Miscellaneous Expenditure	-	5,04,130.00	5,04,130.00	-	7,22,649.00	7,22,649.00
XIV) SP/C MACAY Expenses	-	19,000.00	19,000.00	-	30,328.00	30,328.00
XV) Excess Provision Write off FY 2019-20	-	(2,05,316.00)	(2,05,316.00)	-		
TOTAL	-	2,13,83,087.96	2,13,83,087.96	-	3,11,11,172.00	3,11,11,172.00



SCHEDULE- 14 - TRANSPORTATION EXPENSES

PARTICULAR	FY 2020-21			FY 2019-20		
	Plan	Non Plan	Total	Plan	Non Plan	Total
1. Vehicles (Owned by Institutions)						
A) Insurance Expenses	-	1,56,604.00	1,56,604.00	-	1,70,249.00	1,70,249.00
B) Running Expenses (Fuel)	-	1,52,876.00	1,52,876.00	-	4,26,659.00	4,26,659.00
C) Vehicles Repairs & Maintenance	-	1,20,713.00	1,20,713.00	-	3,19,644.00	3,19,644.00
2. Vehicles Hiring Expenses	-	-	-	-	34,204.00	34,204.00
Total	-	4,30,193.00	4,30,193.00	-	9,50,756.00	9,50,756.00

SCHEDULE- 15 - REPAIRS & MAINTENANCE

PARTICULAR	FY 2020-21			FY 2019-20		
	Plan	Non Plan	Total	Plan	Non Plan	Total
1. Annual Maintenance Cost						
a) AMC of DG Set	-	-	-	-	80,040.00	80,040.00
b) AMC of Photocopier	-	5,605.00	5,605.00	-	78,470.00	78,470.00
c) AMC of Water Purifiers	-	11,000.00	11,000.00	-	26,850.00	26,850.00
2. Building Maintenance	-	20,31,098.00	20,31,098.00	-	46,44,662.00	46,44,662.00
3. Cleaning Material & Services	-	95,624.00	95,624.00	-	4,21,041.00	4,21,041.00
4. Computer Maintenance	-	3,38,311.00	3,38,311.00	-	3,19,189.00	3,19,189.00
5. Electrical Maintenance	-	10,18,082.00	10,18,082.00	-	21,40,777.00	21,40,777.00
6. Furniture & Fixtures Maintenance	-	55,779.00	55,779.00	-	51,661.00	51,661.00
7. Gardening	-	59,663.00	59,663.00	-	97,504.00	97,504.00
8. Office Equipments Maintenance	-	2,07,973.00	2,07,973.00	-	1,89,930.00	1,89,930.00
9. Repair & Maintenance-Others	-	14,55,875.00	14,55,875.00	-	20,02,063.00	20,02,063.00
10. Provision Write-off FY 2019-20	-	(33,45,867.00)	(33,45,867.00)	-	-	-
Total	-	19,33,143.00	19,33,143.00	-	1,00,52,187.00	1,00,52,187.00





NATIONAL INSTITUTE OF FOUNDRY & FORGE TECHNOLOGY

HATIA, RANCHI-834003

RECEIPTS AND PAYMENTS ACCOUNT FOR THE YEAR ENDED 31.03.2021

RECEIPTS	Sch. No.	Current Year 2020-21	Previous Year 2019-20	PAYMENTS	Sch. No.	Current Year 2020-21	Previous Year 2019-20
I. Opening Balances				I. Expenses			
A) Cash Balances		48,363.00	-	1. Non Plan Expenses	20	20,57,06,814.00	21,31,20,864.00
B) Bank Balances				2. Staff Payments & Benefits (Ex. Expenses)		1,83,38,121.00	2,73,81,955.00
In Savings Accounts				3. Academic Expenses		1,62,13,120.10	2,13,93,462.00
SB A/c No. 2730101006935 (Non-Plan)		3,56,02,216.62	1,60,90,009.52	4. Administrative and General Expenses		2,07,641.00	3,00,980.00
SB A/c No. 2730101007913 (Plan)		-	2,31,725.60	5. Repair & Maintenance		10,19,230.00	22,41,613.00
SB A/c No. 2730101009959 (IDF)		1,127.00	1,127.00				
SBI Hatia (IDF)		3,344.10	3,344.10	III. Payments Against Sponsored Projects	21 (H)	8,10,122.00	12,80,051.00
Canara Bank SB A/c No. 2730101011451 (OH-31)		6,94,28,890.02	48,08,771.00	IV. Payments Against Sponsored Fellowship/Scholarship	21 (A)	86,75,850.00	24,22,810.00
Canara Bank SB A/c No. 2730101011452 (OH-36)		14,53,91,757.50	12,02,17,163.50				
Canara Bank SB A/c No. 2730101011453 (OH-35)		7,84,32,890.00	4,45,49,835.00	IV. Expenditure on Fixed Assets	22	3,76,45,073.00	2,38,70,741.00
Canara Bank SB A/c No. 2730101011923 (SERB Project I)		1,75,472.00	-	1. Plan Fixed Assets			
Canara Bank SB A/c No. 2730101012032 (Principal A/c)		1,54,09,982.00	-	2. Non Plan Fixed Assets	23	1,56,875.00	-
Canara Bank SB A/c No. 2730101012429 (SERB Project II)		28,46,632.00	-	V. Interest on Loan of Employees/Staff	24	7,755.00	17,730.00
II. Grants Received				VI. Loans, Advances and Deposits	25	3,73,72,296.00	10,89,64,477.00
From Government of India (MHEQ)				VII. Other Payments	26	12,19,28,171.00	8,98,43,763.00
1. Plan Grant				VIII. Loan From HEPA		3,08,20,000.00	-
2. Non Plan Grant		17,96,69,649.00	10,00,00,000.00	IX. Current Assets		16,90,00,000.00	-
III. Academic Receipts	16	82,76,700.00	2,01,71,250.00	Term Deposit		7,62,875.00	-
1. Academic		10,67,415.00	21,50,900.00	Alumni Fund Investment		48,003.00	-
2. Examination		1,23,62,900.00	1,28,73,872.80	TDS Receivable		-	-
3. Other Fees		-	-			30.00	48,363.00
IV. Receipts Against Sponsored Projects	20(b)	27,04,764.00	55,63,659.00	VIII. Closing Balances			
V. Receipt Against Sponsored Fellowship	21(c)	17,22,450.00	33,10,350.00	A) Cash Balances		3,39,54,957.00	3,56,02,216.62
VI. Interest Received on				B) Bank Balances		12,78,316.00	1,127.00
1. On SB Accounts (Non Plan)		12,83,609.00	65,59,056.00	In Savings Accounts		-	-
2. On Loans & Advances		97,350.00	69,325.00	Canara Bank SB A/c No. 2730101006935 (Non Plan)		3,39,54,957.00	3,56,02,216.62
3. On Term Deposits		6,18,434.00	-	Canara Bank online A/c. 2730101012610		12,78,316.00	1,127.00
4. On SB Accounts (Plan)		-	-	Canara Bank SB A/c No. 2730101009959 (IDF)		-	-
VII. Term Deposits Encashed				SBI Hatia SB A/c (IDF)		-	-
FD Encashment		17,00,80,045.00	-	Canara Bank SB A/c No. 2730101011451 (OH-31)		5,07,28,264.02	6,94,28,890.02
				Canara Bank SB A/c No. 2730101011452 (OH-36)		4,79,04,567.50	14,53,91,757.50
				Canara Bank SB A/c No. 2730101011453 (OH-35)		19,44,506.00	7,84,32,890.00
				Canara Bank SB A/c No. 2730101011923 (SERB Project I)		1,73,281.00	1,75,472.00
				Canara Bank SB A/c No. 2730101012032 (Principal A/c)		1,59,07,334.00	1,54,09,982.00
				Canara Bank SB A/c No. 2730101012429 (SERB Project II)		43,58,368.00	28,46,632.00
				Canara Bank SB A/c No. 2730101012033 (Barrow A/c)		65.00	-
				Canara Bank SB A/c No. 2730101012031 (Alumni Cell)		45,565.40	-



VIII. Other Income					
1. other Income	17	20,40,911.20	30,85,861.02		
IX. Miscellaneous receipts including Liability	18	6,78,17,045.18	5,19,17,810.50		
X. Deposits & Advances	19	40,12,172.00	38,88,731.00		
XI. Fund in Transit of FY 2018-19			9,00,00,000.00		
XII. Earmarked Fund for NIFTY Alumni Cell		8,08,410.40	-		
		80,00,02,169.02	83,79,82,230.24	80,00,02,169.02	83,79,82,230.24

For M/s Manmohan Singh & Co.
Chartered Accountants

CA J. P. Sharma
(Partner)
M.N.D. 402655



Manmohan Singh
Deputy Registrar

Manmohan Singh
DIRECTOR

**SCHEDULE- 16 - ACADEMIC RECEIPTS**

PARTICULARS		AMOUNT
1.Academic		
a. Admission Fee		21,000.00
b. Application Fee		1,16,700.00
c. Computer Fee		4,42,500.00
d. Grade Card Fee		16,200.00
e. Library Access Fee		4,42,500.00
f. Registration/Enrolment Fee		1,07,200.00
g. Seat Rent		73,800.00
h. Tuition Fees		70,55,800.00
(1) Sub Total		82,76,700.00
2.Examination Fees		
a. Examination Fees-Institute		2,23,100.00
b.Examination Fees-Ranchi University		2,27,400.00
c.Examination Fees(Jharkhand Technical University)		6,16,915.00
(2) Sub Total		10,67,415.00
3.Other Fees		
a.Fine & Penalties		600.00
b.Gymkhana Fee		1,32,150.00
c.Hostel Fees		21,000.00
d.Hostel Maintenance Fee		1,23,000.00
e.Internet Access Fee		1,32,750.00
f.Medical Fee		2,67,000.00
g.Thesis Fees		7,600.00
4.Admission Fees from CSAB 2020		94,92,000.00
5.CCMT 2020		21,86,500.00
(3) Sub Total		1,23,62,600.00



SCHEDULE- 17 - OTHER INCOME

PARTICULARS	AMOUNT
1.Other	
a.Bus Charges Recovery	29,600.00
b.Certificate/Transcript verification fees	13,000.00
c. Misc. Receipts (sale of Tender Form etc.)	2,19,655.20
d.RTI Fees	80.00
e.Mess Fees	12,300.00
f.Recruitment Fees	8,000.00
g.Triable Area Allowance Recovery	9,21,588.00
h.Income from Consultancy	69,240.00
i. Insurance claim of Vehicle	16,791.00
2.Income from Land & Building	
a.Electricity charges Recovered	2,17,158.00
b.Rent Recovered	26,600.00
c. Licence Fees	5,05,178.00
d.Water Charges Recovery	1,321.00
TOTAL	20,40,911.20





18. MISCELLANEOUS RECEIPT INCLUDING LIABILITIES	
PARTICULARS	AMOUNT
1. Deposit From Staff	
B.K.Chakraborty-with held Amount	2,00,000.00
2. Deposit From Student	
Cauton Money	8,15,600.00
3. Statutory Liabilities	
a. GPF Deduction from Salary	1,97,40,076.00
b. GIS Premium	28,100.00
c. LIC Premium	11,01,061.00
d. New Pension Scheme (Employees Contribution)	41,69,466.00
e. New Pension Scheme (Employers Contribution)	58,37,135.00
f. Professional Tax on Salary	1,70,847.00
g. TDS Payable U/sec. 192A	1,96,55,760.00
h. TDS Payable U/sec. 194C	1,13,287.00
i. TDS Payable U/sec. 194J	13,737.00
j. CPF Deduction from Salary	9,93,986.00
4. Other Current Liability	
i. Expense Payable	27,56,017.00
ii. NIFFT Alumni Association	24,900.00
iii. Amount Received From Unidentified Person	2,50,537.18
iv. Deposit from CBI	1,70,000.00
v. Interest transferable to MHRD	52,95,758.00
vi. UG & PG Summer Examination-2020	30,000.00
vii. Contribution PM Relief Fund for COVID-19	3,22,889.00
5. Deposit-Others	
i. Earnest Money	60,91,870.00
ii. Advance from Madan Prasad (CPWD Contracotr)	35,919.00
TOTAL	6,78,17,045.18



SCHEDULE- 19 - DEPOSIT & ADVANCES

PARTICULARS		AMOUNT
1.Advance to Supplier		
a.Advance to Concept Media Group Films		25,000.00
b.Advance to CPWD		5,39,241.00
2.Advance to Employees (Interest Bearing)		
a.Car/Motorcycle/Scooter Advance		28,170.00
b.Computer Advance		1,20,200.00
3.Advance to Employees (Non Interest Bearing)		
a.Expenses Advance		6,04,712.00
b.Festival Advance		900.00
c.Leave Travel Concession Advance		22,05,166.00
d.Medical Advance		11,883.00
e.Rolling Advance		1,48,972.00
f.Travelling Advance		80,911.00
g.CPDA Advance		2,21,967.00
4.Temporary Advance		
a. Poklo Oraon (Spouse Bhatu Oraon)-Monetary Advance		25,000.00
TOTAL		40,12,122.00





SCHEDULE- 20 - NON-PLAN EXPENSES

PARTICULARS	AMOUNT
1. Academic Expenses	
a. Examination Expenses	6,53,600.00
b. Payment to Visiting Faculty	34,240.00
c. Stipend/Merit cum means Scholarship	1,53,55,167.00
d. Student Welfare Expenses	5,75,008.00
e. Laboratory & workshop Expenses	69,589.00
f. Seminar/Workshop/Conference Expenses	1,32,486.00
g. Deemed University Fees	15,00,000.00
h. Other Academic Expenses	18,031.00
(1) Sub Total	1,83,38,121.00
2. Administrative General Expenses	
a. Communication	1,77,955.00
b. Infrastructure	60,87,587.00
c. Others Expenditure	99,47,578.10
	1,62,13,120.10
3. Repair & Maintenance	
a. Annual Maintenance Cost	11,000.00
b. Building Maintenance	25,350.00
c. Computer Maintenance	1,04,298.00
d. Electrical Maintenance	5,41,964.00
e. Furniture & Fixture Maintenance	27,449.00
f. Repair & Maintenance-Printer	72,508.00
g. Repair & Maintenance-others	2,36,661.00
(3) Sub Total	10,19,230.00
4. Staff Payments & Benefits (Est. Expenses)	
a. Allowances & Bonus	1,86,516.00
b. Children Education Allowance	12,79,350.00
c. Honorarium	98,305.00
d. Leave Travel Concession Facilities	19,24,866.00
e. Medical Facility	10,20,215.00
f. Payment to Adhoc Staff	32,36,699.00
g. Retirement & Terminal Benefits	6,44,29,684.00
h. Salaries & Wages	13,35,02,663.00
i. Telephone Facility	28,516.00
(4) Sub Total	20,57,06,814.00
5. Transportation Expenses	
a. Vehicles (Owned by Institution)	1,56,604.00
b. Vehicles Repair & Maintenance	46,037.00
(5) Sub Total	2,02,641.00
TOTAL	24,14,79,926.10

SCHEDULE- 21 - PAYMENT AGAINST SPONSORED PROJECT AND FELLOWSHIP/SCHOLARSHIP

PARTICULARS	AMOUNT
A.RECEIPT AGAINST SPONSORED FELLOWSHIP/SCHOLARSHIP	
i) Govt. of India SC/ST Scholarship	26,29,100.00
ii) State Scholarship for Students	10,46,750.00
21 (A) TOTAL	36,75,850.00
B.RECEIPT AGAINST SPONSORED PROJECT	
i) Buriapur Surgical Cluster, MSME (West Bengal)	3,866.00
ii) Project-Science & Engineering Research Board(S.Basu)	5,03,150.00
iii) Project-Science & Engineering Research Board (P.S.Mondal)	2,07,200.00
iv) Unnat Bharat Abhiyan	95,906.00
21 (B) TOTAL	8,10,122.00

SCHEDULE- 22 - PLAN FIXED ASSETS

PARTICULARS	AMOUNT
i. Capital Work in Progress	70,38,965.00
ii. Computer & Peripherals	1,02,24,115.00
iii. Furniture, Fixture & Fittings	1,57,410.00
iv. Library Books & Scientific Journals	3,00,453.00
v. Office Equipment	4,93,240.00
vi. Plant & Machinery	2,25,004.00
vii. Scientific Laboratory Equipment	18,62,822.00
viii. E-Journal Subscription	1,54,69,241.00
ix. Software Subscription	18,72,823.00
TOTAL	3,76,45,073.00





SCHEDULE- 23 - NON PLAN FIXED ASSETS

PARTICULARS	AMOUNT
i.Computer & Peripherals	53,935.00
ii.Office Equipment	1,02,941.00
TOTAL	1,56,876.00

SCHEDULE- 24 - Interest on Loan of Employees

PARTICULARS	AMOUNT
Interest on Loans of Employees/staff (Extra Deduct from Salary)	7,755.00
TOTAL	7,755.00





SCHEDULE- 25 - LOAN ADVANCES & DEPOSITS	
PARTICULARS	AMOUNT
1. Advance & Other Amount Receivable In cash/ kind	
a. Advance to Suppliers	1,31,10,934.00
b. On Capital Account	1,63,38,718.00
2. Advance to Employees (Non Interest Bearing)	
a. Expenses Advance	23,30,557.00
b. Leave Travel Concession Advance	32,30,000.00
c. Medical Advance	11,42,000.00
d. Rolling Advance	1,59,187.00
e. Travelling Advance	60,000.00
f. CPDA Advance	8,40,900.00
3. Advance to Employees (Interest Bearing)	
a. Computer Advance	1,35,000.00
4. Temporary Advance	
a. Pokdo Oraon (Spouse Bhatu Oraon) -Monetary Advance	25,000.00
TOTAL	3,73,72,296.00

SCHEDULE- 26 - OTHER PAYMENT	
PARTICULARS	AMOUNT
1. Deposit from Staff	
a. B.K.Chakraborty Withheld Amount	2,00,000.00
b. Salary held of Ponappa K	64,971.00
2. Deposit-Other	
Earnest Money	13,25,120.00
3. Deposit From Students	
a. Caution Money	3,93,300.00
4. Other Current Liabilities	
a. Expenses Payable	7,96,04,516.00
b. Amount Payable to Manoj Kumar	2,476.00
c. IPC Project	24,000.00
d. Honorarium Payable for CSAB	61,000.00
e. Contribution PM Relief Fund for COVID-19	3,22,889.00
f. NIFT Alumni Association	1,500.00
g. Kumar Aman-Mess Fees	13,500.00
5. Statutory Liabilities	
a. GPF Deduction from Salary	2,29,00,076.00
b. GIS Premium	32,900.00
c. LIC Premium	11,00,008.00
d. New Pension Scheme(Employees Contribution)	41,69,465.00
e. New Pension Scheme(Employers Contribution)	58,37,134.00
f. TDS Payable 92A	46,89,709.00
g. TDS Payable 94C	2,02,083.00
h. TDS Payable 94J	26,087.00
i. CPF Deduction from Salary	9,57,437.00
TOTAL	12,19,28,171.00



NATIONAL INSTITUTE OF FOUNDRY & FORGE TECHNOLOGY
HATIA, RANCHI-834003

BANK RECONCILIATION STATEMENT AS ON 31.03.2021

1) CANARA BANK SB A/C NO. 2730101006939 (NON PLAN A/c)

Particulars	Amount
Balance as per Ledger as on 31.03.2021	3,39,54,957.00
Less: Cheques deposited but not cleared as on 31.03.2021 (Annexure-II)	25,01,200.00
Balance as per Ledger as on 31.03.2021 (After Calculation)	3,14,53,757.00
Balance as per Bank Statement as on 31.03.2021	3,14,53,757.00
Difference	-

2) CANARA BANK SB A/C NO. 2730101011451

Particulars	Amount
Balance as per Ledger as on 31.03.2021	5,07,28,264.02
Add: Amount credited in Bank but not entered in Cash Book	5,356.00
Add: Amount credited in cash book but not cleared from Bank	33,85,287.00
Less: Cheques deposited but not cleared in Bank	19,627.00
Balance as per Ledger as on 31.03.2021 (After Calculation)	5,40,99,280.02
Balance as per Bank Statement as on 31.03.2021	5,40,99,280.02
Difference	-

3) CANARA BANK SB A/C NO. 2730101011452

Particulars	Amount
Balance as per Ledger as on 31.03.2021	4,79,04,567.50
Add: Amount credited in cash book but not cleared from Bank	3,74,742.00
Less: Cheques deposited but not cleared in Bank	1,79,601.00
Balance as per Ledger as on 31.03.2021 (After Calculation)	4,80,99,708.50
Balance as per Bank Statement as on 31.03.2021	4,80,99,708.50
Difference	-

4) CANARA BANK SB A/C NO. 2730101011453

Particulars	Amount
Balance as per Ledger as on 31.03.2021	19,44,504.00
Add: Amount credited in cash book but not cleared from Bank	1,89,99,214.00
Balance as per Ledger as on 31.03.2021 (After Calculation)	2,09,43,718.00
Balance as per Bank Statement as on 31.03.2021	2,09,43,718.00
Difference	-

5) CANARA BANK SB A/C NO. 2730101011923 (SERB Project)

Particulars	Amount
Balance as per Ledger as on 31.03.2021	1,73,281.00
Add: Amount credited in cash book but not cleared from Bank	30,468.00
Balance as per Ledger as on 31.03.2021 (After Calculation)	2,03,749.00
Balance as per Bank Statement as on 31.03.2021	2,03,749.00
Difference	-



**Annexures Forming Part of Bank Reconciliation Statement
CANARA BANK SB A/C NO. 2730101006939 (NON PLAN A/c)**

ANNEXURE- II:

Cheques deposited but not cleared as on 31.03.2021

Date	Particulars	Chq. No.	Amount
31.03.2021	Bus Charges Recovery	89986	1,200.00
31.03.2021	Earmarked Fund-CISD	249166	25,00,000.00
TOTAL			25,01,200.00

**Annexures Forming Part of Bank Reconciliation Statement
CANARA BANK SB A/C NO. 27301010011451 (GENERAL HEAD OH-31)**

Amount credited in bank but not entered in cash book

Date	Particulars	Chq. No.	Amount
16.01.2021	STATE BANK OF INDIA	847134	5,356.00
TOTAL			5,356.00

Amount credited in cash book but not cleared from Bank

Date	Particulars	Chq. No.	Amount
31.03.2021	Canara Bank (Non Plan)-2730101006939	249166	25,00,000.00
31.03.2021	CAG Audit Fees	249164	2,20,292.00
31.03.2021	Misc. Expenditure (21 Bills)	249165	6,64,995.00
TOTAL			33,85,287.00

Cheque deposit but not cleared in Bank

Date	Particulars	Chq. No.	Amount
10.12.2020	A.K.Prarnanik-Expense Advance	731251	2,780.00
31.03.2021	Himanshu Khandelwal -TA Advance	612516	13,332.00
31.03.2021	R K Ohdar-Travelling Advance	730899	3,515.00
TOTAL			19,627.00

**Annexures Forming Part of Bank Reconciliation Statement
CANARA BANK SB A/C NO. 27301010011452 (Salary-OH-36)**

Amount debited in cash book but not cleared in Bank

Date	Particulars	Chq. No.	Amount
31.03.2021	Misc. Bill (27 Bills)	455937	3,74,742.00
TOTAL			3,74,742.00

Date	Particulars	Chq. No.	Amount
30.03.2021	Nandita Gupta-LTC Advance	934695	229
30.03.2021	litray Munda -LTC Advance	89970	27,756
31.03.2021	N.K.Singh-CPDA Advance	458094	75,092
31.03.2021	R.K.Ohda-CPDA Advance	730900	75,092
31.03.2021	Amitesh Kumar-CPDA Advance	451208	636
31.03.2021	S.K.Soren-CPDA Advance	08413	796
TOTAL			1,79,601.00





NATIONAL INSTITUTE OF FOUNDRY AND FORGE TECHNOLOGY, RANCHI

A Centrally Funded Technical Institute Under Ministry of Education, Govt. of India



STATEMENT OF ACCOUNTS FOR GENERAL PROVIDENT FUND FOR THE FINANCIAL YEAR 2020-21

(As per Revised Formats of Financial Statements for Central Higher Educational Institutions)

Audited by:

M/s. Manmohan Singh & Co.

(Chartered Accountant)

Ranchi

NATIONAL INSTITUTE OF FOUNDRY & FORGE TECHNOLOGY

HATIA, RANCHI-834003

GENERAL PROVIDENT FUND ACCOUNT

BALANCE SHEET AS AT 31st MARCH, 2021

Previous Year 2019-20	Liabilities	Current Year 2020-21	Previous Year 2019-20	Assets	Current Year 2020-21
9,88,21,196.00	GPE	11,55,45,129.00	8,06,15,974.00	Investment in Term Deposit	8,50,47,580.00
	Opening Balance	9,88,21,196.00		27303070000001/3	84,47,148.00
	Add: Subscription	2,27,48,876.00		2730401001442/8	1,74,01,608.00
	Add: Advances Recovered	-		2730401001442/9	1,19,01,895.00
	Less: Withdrawals	92,30,000.00		2730401001627/5	1,74,70,365.00
	Less: GPF Final settlements	40,25,609.00		2730401001848/8	82,39,923.00
	Add: Interest Credited	72,30,666.00		2730401002217/6	1,07,93,320.00
	Closing Balance	11,55,45,129.00		2730401002218/6	1,07,93,321.00
1,09,48,190.36	Interest Reserve		29,40,249.07	Accrued Interest	31,57,276.70
	Opening Balance			TDS on FD Interest	4,97,399.00
	Less: Excess of Expense over			Cash at Bank	
	Income	12,22,116.37		Canara Bank SB A/c No. 2730101007115	3,65,68,947.29
	Closing Balance	97,26,073.99	2,62,13,163.29		
10,97,69,386.36	Total	12,52,71,202.99	10,97,69,386.36	Total	12,52,71,202.99

AS INTERNAL AUDITOR

For M/s Mannohan Singh & Co.

Chartered Accountants



CA J.P. Sharma
(Partner)
M.NO. 402655

(Signature)
Deputy Registrar

(Signature)
Registrar



NATIONAL INSTITUTE OF FOUNDRY & FORGE TECHNOLOGY

HATIA, RANCHI-834003

GENERAL PROVIDENT FUND ACCOUNT

INCOME AND EXPENDITURE ACCOUNT FOR THE YEAR ENDED 31st MARCH 2021

Previous Year 2019-20	EXPENDITURE	Current Year 2020-21	Previous Year 2019-20	INCOME	Current Year 2020-21
70,06,979.00	Interest credited to GPF Account	72,30,666.00	47,81,999.07	Interest Earned on Investment Interest received on FDR Add: Interest accrued on 31.03.2021 Less: Interest Accrued on 31.03.2020	51,46,032.63
72.00	Bank Charges	959.00	3,72,753.00 18,52,298.93	Interest on Saving Bank Account Excess of Expenditure over Income adjust From Interest Reserve Account	8,63,476.00 12,22,116.37
70,07,051.00	Total	72,31,625.00	70,07,051.00	Total	72,31,625.00

For M/s Mannohan Singh & Co.

Chartered Accountants

CA J. P. Sharma

(Partner)

M.NO. 402655



(Signature)
Deputy Registrar

(Signature)
Director

NATIONAL INSTITUTE OF FOUNDRY & FORGE TECHNOLOGY
HATIA, RANCHI-834003
GENERAL PROVIDENT FUND ACCOUNT
RECEIPT AND PAYMENT ACCOUNT FOR FINANCIAL YEAR ENDED 31st MARCH 2021

Previous Year 2019-20	RECEIPTS	Current Year 2020-21	Previous Year 2019-20	PAYMENTS	Current Year 2020-21
1,21,49,579.29	Opening Balance		80,00,000.00	FD Investment	-
1,49,82,969.00	Canara Bank SB A/c No. 2730101007115	2,62,13,163.29	5,08,592.00	GPF Final Settlement	40,25,609.00
	GPF Subscription	2,27,48,876.00	48,67,000.00	GPF Withdrawal	92,30,000.00
	GPF Advance recovery	-	72.00	Bank Charges	959.00
1,10,69,482.00	FD Encashment(30155723633/1 SBI)	-			
10,14,044.00	Interest on FD Encashment	-			
3,72,753.00	Interest on Saving Bank Account	8,63,476.00			
3,95,88,827.29	Total	4,98,25,515.29	2,62,13,163.29	Closing Balance	3,65,68,947.29
			3,95,88,827.29	Canara Bank SB A/c No. 2730101007115	4,98,25,515.29
				Total	

For M/s Mannohan Singh & Co.
Chartered Accountants



(Signature)
Deputy Registrar

(Signature)
Registrar



NATIONAL INSTITUTE OF FOUNDRY & FORGE TECHNOLOGY
HATIA, RANCHI-834003

GENERAL PROVIDENT FUND ACCOUNT
DETAILS OF TERM DEPOSITS AS ON 31.03.2021

Sl.	Account Number	Bank	Principal	Interest Accrued	TDS on FD
1	27303070000001/3	CANARA	84,47,148.00	3,62,347.86	27,176.00
2	2730401001442/8	CANARA	1,74,01,608.00	13,31,243.91	81,231.00
3	2730401001442/9	CANARA	1,19,01,895.00	2,42,921.11	18,219.00
4	2730401001627/5	CANARA	1,74,70,365.00	3,06,401.75	22,980.00
5	2730401001848/8	CANARA	82,39,923.00	58,320.00	4,374.00
6	2730401002217/6	CANARA	1,07,93,320.00	5,45,958.02	40,947.00
7	2730401002218/6	CANARA	1,07,93,321.00	5,45,958.05	40,947.00
Total:			8,50,47,580.00	33,93,150.70	2,35,874.00



NATIONAL INSTITUTE OF FOUNDRY & FORGE TECHNOLOGY
HATIA, RANCHI-834003

Bank Reconciliation Statement as on 31.03.2021

1) CANARA BANK SB A/C NO. 2730101007115 (NIFFT GPF A/C)

Particulars	Amount
Balance as per Ledger as on 31.03.2020	3,65,68,947.29
Balance as per Bank Statement as on 31.03.2020	3,65,68,947.29
Difference	





NATIONAL INSTITUTE OF FOUNDRY AND FORGE TECHNOLOGY, RANCHI

A Centrally Funded Technical Institute Under Ministry of Education, Govt. of India



STATEMENT OF ACCOUNTS FOR TECHNICAL EDUCATION QUALITY IMPROVEMENT PROGRAMME ACCOUNT FOR THE FINANCIAL YEAR 2020-21

(As per Revised Formats of Financial Statements for Central Higher Educational Institutions)

Audited by:

M/s. Manmohan Singh & Co.

(Chartered Accountant)

Ranchi

NATIONAL INSTITUTE OF FOUNDRY AND FORGE TECHNOLOGY

HATIA, RANCHI-834003

TECHNICAL EDUCATION QUALITY IMPROVEMENT PROGRAMME ACCOUNT

BALANCE SHEET AS AT 31st MARCH, 2021

SOURCES OF FUNDS	Schedule	Current Year 2020-21	Previous Year 2019-20
CORPUS/CAPITAL FUND	1	2,15,13,950.36	2,45,34,522.17
TOTAL		2,15,13,950.36	2,45,34,522.17
APPLICATION OF FUNDS			
FIXED ASSETS	2	1,96,53,712.25	2,26,74,284.06
CURRENT ASSETS	3	7,05,484.11	7,05,484.11
LOANS, ADVANCES & DEPOSITS	4	11,54,754.00	11,54,754.00
TOTAL		2,15,13,950.36	2,45,34,522.17

AS INTERNAL AUDITOR
For M/s Manmohan Singh & Co.



CA J. P. Sharma
(Partner)
M.NO. 402655

(Signature)
Deputy Registrar

(Signature)
Registrar

(Signature)
Director



NATIONAL INSTITUTE OF FOUNDRY & FORGE TECHNOLOGY

HATIA, RANCHI-834003

TECHNICAL EDUCATION QUALITY IMPROVEMENT PROGRAMME ACCOUNT

INCOME AND EXPENDITURE ACCOUNT FOR THE YEAR ENDED ON 31st MARCH, 2021

INCOME	Schedule	Current Year 2020-21	Previous Year 2019-20
GRANTS	-	-	-
OTHER INCOME	-	-	-
TOTAL(A)		-	-

EXPENDITURE	Schedule	Current Year 2020-21	Previous Year 2019-20
OTHER EXPENSES	-	-	-
DEPRECIATION	2	30,20,571.81	34,39,883.63
TOTAL(B)		30,20,571.81	34,39,883.63
Balance Being Deficit Carried to Capital Fund		(30,20,571.81)	(34,39,883.63)

For M/s Manmohan Singh & Co.

Chartered Accountants

CA J. P. Sharma

(Partner)

M.NO. 402655



Manmohan Singh
Deputy Registrar

Manmohan Singh
Director

NATIONAL INSTITUTE OF FOUNDRY & FORGE TECHNOLOGY

HATIA, RANCHI-834003

TECHNICAL EDUCATION QUALITY IMPROVEMENT PROGRAMME ACCOUNT RECEIPTS AND PAYMENTS ACCOUNT FOR THE YEAR ENDED 31.03.2021

Previous Year 2019-20	RECEIPTS	Current Year 2020-21	Previous Year 2019-20	PAYMENTS	Current Year 2020-21
1,255.00 7,04,229.11	Opening Balances A) Cash Balances B) Bank Balances	1,255.00 7,04,229.11		Expenses	
-	Receipts	-	1,255.00 7,04,229.11	Closing Balances A) Cash Balances B) Bank Balances	1,255.00 7,04,229.11
7,05,484.11		7,05,484.11	7,05,484.11		7,05,484.11

For M/s Manmohan Singh & Co.

Chartered Accountants



CA J. P. Sharma
(Partner)
M.NO. 402655

(Signature)
Deputy Registrar

(Signature)
Registrar



SCHEDULE - 1 - CORPUS/CAPITAL FUND

Particulars	Current Year	Previous Year
Balance at the beginning of the year	2,45,34,522.17	2,79,74,405.80
Add: Contributions towards Corpus/Capital fund	-	-
Add: Grants Received	-	-
Add: Excess of Income over Expenditure transferred from the Income & Expenditure Account	-	-
TOTAL	2,45,34,522.17	2,79,74,405.80
Deduct: Deficit transferred from Income & Expenditure Account	(30,20,571.81)	(34,39,883.63)
Balance at the year end	2,15,13,950.36	2,45,34,522.17



SCHEDULE - 2- TEQIP FIXED ASSETS (O.B)

S.No	Assets Heads	Opening Balance	Additions	Deductions	Total	Depreciation for the Year	Closing Balance
1	2	3	4	5	6	7	8
1	Scientific & Laboratory Equipment	2,26,30,886.95	-	-	2,26,30,886.95	29,77,174.70	1,96,53,712.25
2	Furniture, Fixtures & Fittings	43,397.11	-	-	43,397.11	43,397.11	-
	Total (C)	2,26,74,284.06	-	-	2,26,74,284.06	30,20,571.81	1,96,53,712.25

SCHEDULE- 3 - CURRENT ASSETS(OB)

Particulars	Current Year 2020-21	Previous Year 2019-20
1. cash in Hand	1,255.00	1,255.00
2. Cash at Bank	7,04,229.11	7,04,229.11
Total	7,05,484.11	7,05,484.11

SCHEDULE- 4 - LOANS & ADVANCES(OB)

Particulars	Current Year 2020-21	Previous Year 2019-20
1. M/s Ed.CIL (India) Ltd.	11,23,225.00	11,23,225.00
2. M/s NIIFT	31,529.00	31,529.00
Total	11,54,754.00	11,54,754.00





NATIONAL INSTITUTE OF FOUNDRY AND FORGE TECHNOLOGY HATIA, RANCHI-834003

SIGNIFICANT ACCOUNTING POLICIES AND NOTES ON ACCOUNTS (FY: 2020-21)

A- SIGNIFICANT ACCOUNTING POLICIES

A) GENERAL

The Financial Statement are prepared In three parts i.e. (i) Receipts and Payments Account, (ii) Income and Expenditure Account and (iii) Balance sheet along with other four subsidiary accounts of the Institute viz. NIFFT- General Provident Account, Technical Education Quality Improvement Programme-NIFFT, Ministry of Steel Technical Wing Account-NIFFT and Workshop on Excellence in Manufacturing Account-NIFFT. The Annual Accounts of the Institute for FY 2020-21 are prepared on the revised "Formats of Financial Statements for Central Higher Education Institutions" which is suggested by the Ministry of Human Resource Development, Department of Higher Education, Government of India, Shastri Bhawan, New Delhi vide No. 29-4/2012-IFD dated 17th April, 2015.

SIGNIFICANT ACCOUNTING POLICIES

1. Accounting Convention:

The Annual Accounts are prepared under the historic cost convention and ongoing concern concept, unless otherwise stated, and on Accrual Method of Accounting.

2. Revenue Recognition:

- (i) The Institute is funded by the Ministry of Human Resource & Development (MHRD), Govt. of India. The government releases the Grant-in-Aid under two major heads i.e. PLAN and NON-PLAN. Grant-in-aid from Government of India is accounted for in the same financial year for which it is sanctioned by the MHRD, Government of India.
- (ii) The Institute, by way of its own nature/character, generates internal income. The major sources are various fees realized from students, interest earned on investments, consultancy and testing fees and other miscellaneous income. Fee from Students, Sale of Admission forms and realization against discarded/written off assets are accounted for on Cash Basis.
- (iii) Interest on Savings Bank Accounts is accounted for on Cash Basis.
- (iv) Interest on interest bearing advances to staff for house building, vehicles and computers are accounted for on accrual basis in the year of advance even, though the actual recovery of interest in case of house building advances starts after full repayment of principal amount.

3. Fixed Asset & Depreciation:

- (i) Fixed assets in case of assets belonging to Account are stated at cost of acquisition less accumulated depreciation thereon & impairment loss, if any. The cost includes inward freight, customs duty, installation charges and other directly attributable expenses related to their acquisition, installation and commissioning as per Rule 292 (1) (a) of GFR.



- (ii) The assets which are unserviceable condemned or out of use are written-off as per the provision given in Rule-124 of General Financial Rules (GFR). Such written-off is given effect in the Balance Sheet only after the issue of final order by the competent authority of the Institute.
- (iii) Patents and copy rights ,E Journals and computer software are grouped under Intangible assets
- (iv) Fixed assets are valued at cost less accumulated depreciation. Depreciation on fixed assets is provided on Straight Line method at the following rates. Depreciation is provided for the whole year on net additions during the year.

Land	0%	Office Equipment	7.5%
Site Development	0%	Audio Visual Equipment	7.5%
Buildings	2%	Computers & Peripherals	20%
Roads & Bridges	2%	Furniture, Fixtures & Fittings	7.5%
Tube wells & Water Supply	2%	Vehicles	10%
Sewerage & Drainage	2%	Lib. Books & Scientific Journals	10%
Electrical installation and Equipment	5%	Computer Software	40%
Plant & Machinery	5%	E-Journals	40%
Scientific & Laboratory Equipment	8%	Patents	9 Years

- (v) Depreciation is calculated annually at the end of the year.

4. Capital Work-in-Progress:

Deposit works are accounted for as Capital Work-in-Progress on the basis of inputs provided from Central Public Works Department. These are valued at cost. Running bills of contractors are also accounted for as Capital Work-in-Progress till completion. No depreciation is charged on capital work in progress. Secured advances and mobilization advances being in the nature of advances are disclosed separately under the head Loans & Advances.

5. Investments:

Investments represent amount held in the form of fixed deposit/Term Deposit with banks as per the guidelines issued by Government of India / Reserve Bank of India. No investments are made by the Institute in tradable securities. The investments are valued at cost.

6. Corpus/Capital Fund:

The excess of Income over Expenditure over income is added to the Corpus / Capital Fund and the excess of expenditure over income is deducted from Corpus/Capital Fund.

7. Foreign Currency Transactions:

Foreign Currency Transactions are accounted for at the rate of exchange prevailing on the dates of such transactions.





8. Provisions:

Known liabilities recognized up to the date of finalization of accounts are provided for.

9. Income Tax:

The Institute is exempt from Income Tax as per the Provisions of Section 10(23C)(iii)(ab) of the Income Tax Act 1961. Therefore, no provision for Income Tax is made.

10. Purchase procedure through Institute's Stores & Purchase Unit:

Payments made/cheques issued for purchase of consumable and non-consumable stocks against the confirmed Purchase Orders released by Institute's Stores and Purchase Unit are treated as final expenditure.

For M/s Manmohan Singh & Co.

Chartered Accountants



CA J.P. Sharma
(Partner)
M.No. 402665
FRN : 000107N

Deputy Registrar

Registrar

Director

B- NOTES ON THE ACCOUNTS

1. As the General Provident Fund Accounts are owned by members of those Funds and not by the Institution, These Accounts were separated from the Institute Accounts from 01.04.2015. A Receipt & Payments Account, an Income & Expenditure Account (on Accrual Basis) and a Balance Sheet of the General Provident Account have been attached to the Institute Accounts.

2. In the Balance sheet as on 31.03.2021 and the Balance Sheet of earlier years, Fixed Assets Created out of Plan Funds and Non Plan Funds were not exhibited distinctly. The Additions during the Year from 01.04.2020 to 31.3.2021 from Plan and Non Plan Funds and the depreciation on those additions respectively have been exhibited distinctly in Sub Schedules A & B to the main schedule of Fixed Assets (Schedule -3).

3. SBI Bank A/c no -36228721268 Having balance Rs.13,10,662.20 has been treated as bank a/c for the F.Y. 2015-16 but from the Financial Year 2017-18 onwards It has been treated under the head loans, Advances & Deposit. Management has no such explanation regarding the same.

4. SBI online A/c -38979437865 (New) Balance Rs. 26,565.14 (Dr.) is bank account but same has been treated under head Loan and advances during F.Y 2020-21.

4. Expenditure in Foreign Currency

NIL

5. In the opinion of the management, the current assets, loans, Advances and Deposits have a value on realization in the ordinary course, equal at least to the aggregate amount shown in the Balance Sheet.

6. Previous year's Figures have been regrouped /rearranged wherever found necessary.

7. Schedule 1 to 26 are annexed to and bears an integral part of Balance Sheet as at 31st March 2020 and Income and Expenditure account for the year ended on that date.

For M/s Manmohan Singh & Co.

Chartered Accountants

CA J.P Sharma
(Partner)



Deputy Registrar

Registrar
Director

M.No. 402665
FRN : 000107N



National Institute of Foundry & Forge Technology

**A Centrally Funded Technical Institute under MHRD
(Govt, of India)**

HATIA, RANCHI- 834003 (JHARKHAND)



**Separate Audit Report
For the Financial Year 2020-21**

भारतीय लेखापरीक्षा और लेखा विभाग

२ कार्यालय महानिदेशक लेखापरीक्षा (केन्द्रीय) लखनऊ



INDIAN AUDIT AND ACCOUNTS DEPARTMENT

Office of the Director General of Audit (Central) Lucknow

No DGAC/LKO/SAR-NIFFTR/2020-21/ 223

Dated: 13.12.2021

To,

The Director,
National Institute of Foundry and Forge Technology (NIFFT),
Hatia,
Ranchi -834003

Subject: Separate Audit Report on the accounts of National Institute of Foundry and Forge Technology, Hatia, Ranchi for the year 2020-21.

Sir,

I enclose a copy of the Audit Report and Audit Certificate along with audited Annual Accounts of National Institute of Foundry and Forge Technology, Hatia, Ranchi for the year 2020-21 for information and necessary action.

2. A copy of each of the documents has been sent to the Secretary to the Government of India, Ministry of Human Resource Development, New Delhi for information and necessary action.

3. The audited Annual Accounts, Audit Report should be duly considered and adopted by the Governing Body (BOG) of the National Institute of Foundry and Forge Technology, Hatia, Ranchi in the Annual General meeting before these are laid in the House of parliament.

4. A copy of (i) Resolution of Governing Body adopting the Audit Report and Audit Certificate with audited Annual Accounts, (ii) Date of its presentation before the House of Parliament and (iii) Annual Report of the Institute may be furnished to this office in due course for our records and onward transmission to the Comptroller and Auditor General of India, New Delhi.

5. The Hindi version of this SAR may kindly be furnished to this office within one week.

6. The receipt of this letter with enclosures may please be acknowledged.

Yours faithfully,

Director General of Audit (Central)

Encl: - As above.



Separate Audit Report of the Comptroller & Auditor General of India on the accounts of National Institute of Foundry and Forge Technology, Hatia, Ranchi for the year ended 31 March 2021.

We have audited the Balance Sheet of National Institute of Foundry and Forge Technology, Hatia, Ranchi as at 31 March 2021 and the Income & Expenditure Account and Receipts & Payments Account for the year ended on that date under Section 20(1) of the Comptroller & Auditor General's (Duties, Powers & Conditions of Service) Act, 1971 read with Section 20 (i to ii) of the Memorandum of Association of National Institutes of Foundry and Forge Technology Society. The audit has been entrusted for the period up to 2017-22. These financial statements are the responsibility of the Institute's management. Our responsibility is to express an opinion on these financial statements based on our audit.

2. This separate Audit Report contains the comments of the Comptroller & Auditor General of India (CAG) on the accounting treatment only with regard to classification, conformity with the best accounting practices, accounting standards and disclosure norms, etc. Audit observations on financial transactions with regard to compliance with the Law & Rules & Regulations (Propriety and Regularity) and efficiency-cum-performance aspect, etc., if any are reported through Inspection Report/CAG's Audit Reports separately.

3. We have conducted our audit in accordance with auditing standards generally accepted in India. These standards require that we plan and perform the audit to obtain reasonable assurance about whether the financial statements are free from material misstatements. An audit includes examining, on a test basis, evidences supporting the amounts and disclosure in the financial statements. An audit also includes assessing the accounting principles used and significant estimates made by management, as well as evaluating the overall presentation of financial statements. We believe that our audit provides a reasonable basis for our opinion.

4. Based on our audit, we report that:

(i) We have obtained all the information and explanations which to the best of our knowledge and belief were necessary for the purpose of our audit.

(ii) The Balance Sheet, Income & Expenditure Account and Receipts & Payments Account dealt with by this report have been drawn up in the format approved by the Government of India, Ministry of Human Resources Development.

(iii) In our opinion, proper books of accounts and other relevant records have been maintained by the National Institute of Foundry and Forge Technology (Institute), Hatia, Ranchi as required under Section 20 (i to ii) of the Memorandum of Association of National Institutes of Foundry and Forge Technology Society in so far as it appears from our examination of such books.

(iv) We further report that;

A Balance sheet

A.1 Liabilities

A.1.1 Corpus/Capital Fund (Schedule-1) – ₹ 115.06 crore

A.1.1.1 As per new format of accounts prescribed by MHRD for Central Higher Educational Institutions, capital expenditure from government grants to the extent utilized is to be transferred to the Capital Fund.

Scrutiny of Annual Accounts for the financial year 2020-21 revealed that the Institute had incurred capital expenditure amounting to ₹ 12.95 crore {(₹ 26.86 crore (Schedule-3) – ₹ 13.91 crore (Building New))} from Capital Grant/Plan Grant during the year. However, the Institute had transferred a sum of ₹ 6.70 crore (Schedule-1) only to the Capital Fund. This resulted in understatement of Capital Fund and overstatement of Current Liabilities by ₹ 6.25 crore.

A.2 Current Liabilities (Schedule-2) ₹ 13.31 crore

A.2.1 As per new format of accounts prescribed by MHRD for Central Higher Educational Institutions, unutilized grants including advances paid out of government grants are to be carried and exhibited as a liability in the Balance Sheet.

Scrutiny of Annual Accounts for the financial year 2020-21 revealed that the Institute had transferred a sum of ₹ 6.70 crore to the Capital Fund for the year 2020-21, out of which a sum of ₹ 1.27 crore was included in the amount of advance paid to CPWD during the year. This resulted in overstatement of Capital Fund and understatement of unutilised grant under the head Current Liabilities by ₹ 1.27 crore.

A.2.2 As per new format of accounts prescribed by MHRD for Central Higher Educational Institutions, bank accounts are to be shown under head Current Liability.

Scrutiny of Annual Accounts for the financial year 2020-21 revealed that the Institute had showed the following Bank Accounts under head Loans, advance and deposits.



S. No.	A/C No.	Amount
1.	SBI Online a/c No.36228721268 (Old)	1310662.20
2.	SBI Online a/c No.3897437865 (New)	26565.14
3.	Total:	1337227.34

This resulted in overstatement of Loans, Advances & Deposits and understatement of Bank Balance under the head Current Liabilities by ₹ 13.37 Lakh.

Further Bank reconciliation statement, Bank book and Bank statement pertaining to the SBI Online a/c No.36228721268 (Old) were not presented to audit.

A.3 Fixed Assets (Schedule-3): ₹101.74 crore

A.3.1 CPWD (Civil) completed the 04 nos of Building of ₹39.57 crore during the year August'15 to April'18. As per Common Format of Accounts, the works got completed are transferred to respective Fixed Assets. But the Institute did not transfer these assets to respective Fixed Assets. This resulted in understatement of Fixed Assets and Overstatement of WIP by ₹39.57 crore.

A.4 Loan, Advance & Deposits (Schedule-5) ₹ 17.06 crore

A.4.1 Scrutiny of Form-65 of CPWD as well as Ledger revealed that the CPWD incurred the expenditure amounting to ₹ 8.88 crore from HEFA Loan for construction of New Laboratory building (G+4) but the Institute had shown ₹ 5.39 crore in ledger and WIP. This resulted in understatement of WIP and overstatement of advance by ₹ 3.49 crore.

B. Accounting Policy and Notes to Accounts

B.1 The Institute was situated on land leased by M/s HEC and the lease agreement expired in June 1998, but it was not renewed by M/s HEC till March 2021. This was not mentioned even in the Notes on Accounts.

B.2. The Institute is accounting retirement benefit on cash basis. The accounting policy adopted by the Institute contravenes Accounting Standard 15 issued by ICAI as well as format of accounts prescribed by MHRD which requires that retirement benefits should be accounted on actuarial valuation basis.

B.3. As per general significant accounting policy, the Institute did not prepare the separate account of Ministry of Steel Technical wing Account NIFFT and Workshop on Excellence in Manufacturing Accounts-NIFFT and the Institute did not prepare separate Balance Sheet, I&E and Receipts and Payment accounts in the Annual Accounts.

C. Grants- in-Aid

The Institute received Grants amounting to ₹17.94 crore under the Revenue from MHRD during the financial year 2020-21. The interest earned on Government Grant was ₹0.67 crore (Capital ₹0.27 crore, Revenue ₹0.40 crore). The unspent balance of previous year was ₹46.21 crore (Plan ₹27.58 crore and Revenue ₹18.63 crore). Thus, the Institute had total fund of ₹64.82 crore (Capital ₹ 27.85 crore and Revenue ₹ 36.97 crore). Out of which the Institute utilized a sum of ₹ 34.94 crore (Capital ₹ 5.73 crore and Revenue ₹ 29.21 crore) and leaving of balance of ₹ 29.88 crore (Capital ₹22.12 crore and Revenue ₹7.76 crore) as unutilized amount as on 31.03. 2021. However, the Institute had no amount in the Capital Grant as the institute had given the Advance to CPWD ₹ 11.61 crore, NIC ₹3.29 crore and under CWIP ₹ 7.21 crore.

D. Management letter

Deficiencies which have not been included in the Audit Report have been brought to the notice of the Institute through a management letter issued separately for remedial/ corrective action.

(v) Subject to our observations in the preceding paragraphs, we report that the Balance Sheet and Income & Expenditure Account and Receipts & Payments Account dealt with by this report are in agreement with the books of accounts.

(vi) In our opinion and to the best of our information and according to the explanations given to us, the said financial statements read together with the Accounting Policies and Notes on Accounts, and subject to the significant matters stated above and other matters mentioned in the annexure to this Audit Report give a true and fair view in conformity with accounting principles generally accepted in India.

(a) In so far as it relates to the Balance Sheet, of the state of affairs of the National Institute of Foundry and Forge Technology (NIFFT), Hatia, Ranchi as at 31st March 2021, and

(b) In so far as it relates to Income and Expenditure Account of the Deficit for the year ended on that date.

**For and on behalf of the
Comptroller and Auditor General of India**

Place : Lucknow

Date : 13.12.2021



Director General of Audit (Central), Lucknow



Annexure to Audit Report

1. Adequacy of Internal Audit system;

The Internal Audit Wing of the Institute consists of one person only who conduct pre-check of bills only. Besides, no Internal Audit Manual has been prepared. Internal audit is conducted by a CA Firm.

2. Adequacy of Internal Control System:

The internal control system in the Institute reflected deficiencies in the following areas:

- The Institute has not prepared Internal Audit and Office Procedure of Accounting Manual. Besides, definition and job description of the officers and staff and procedure for maintaining accounts and records and has not been put in place.
- Poor men power management exists in the institute. More than 50 percent teaching and non-teaching post were lying vacant in the institute for long period
- Physical progress of the work-in- progress of buildings was not monitored by the concerned authority, resulting in delays in completion of these buildings.
- No Management Reporting system exists in the Institute.
- There is no Investment Committee in the Institute for investment of GPF and other surplus funds.

3. System of physical verification of Fixed Assets and Inventory

The Institute did not carry out physical verification of fixed assets as well as consumable and non-consumable items since a long time. In absence of physical verification, actual existence of assets could not be ascertained in Audit. Besides, no fixed assets register was maintained by the Institute.

4. Regularity in payment of statutory dues:

The institute was regular in payment of statutory dues.



