



NATIONAL INSTITUTE OF SECONDARY STEEL TECHNOLOGY
(Estd. By Ministry of Steel, Govt. of India)
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ANNUAL REPORT
FINANCIAL YEAR 2023-24



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CHAPTER -1

BACKGROUND

NATIONAL INSTITUTE OF SECONDARY STEEL TECHNOLOGY (NISST)

In June, 1987, a High Power Committee on “*Indian Steel Mission to Europe*” under the leadership of the-then Secretary (Steel), Government of India, visited the steel industries of the EEC countries. It was on the recommendation of the committee that the **National Institute of Secondary Steel Technology (NISST)** was set up by the Ministry of Steel, Government of India on 18th August, 1987 as a Registered Society under the Chairmanship of the then Development Commissioner of Iron & Steel and presently Joint Secretary/Additional Secretary, Ministry of Steel. NISST began functioning with an initial corpus of Rs 10.08 Crores out of erstwhile Billet Re-Rollers Fund (BRC Fund), with the following aims and objectives:

AIMS AND OBJECTIVE OF THE NISST

- ❑ To provide trained technical manpower to the secondary steel sector through short-term and long-term courses and to update their knowledge base.
- ❑ To bring awareness about the state-of-art technology by holding seminars, workshops, and symposia.
- ❑ To provide various industrial services and testing facilities.
- ❑ To extend consultancy services to industries in terms of solving technological problems, improving energy efficiency and reducing pollution levels.
- ❑ To conduct Research, Development & Design work in frontier areas for providing updated technology to this sector.
- ❑ To organize for documentation and information retrieval services to the industry.
- ❑ To provide a platform for interaction between industry and educational as well as research institutions.

AREAS OF SECONDARY STEEL SECTOR UNDER THE PURVIEW OF THE INSTITUTE

- ❑ Electric Arc and Induction Furnace
- ❑ Ladle Refining
- ❑ Rolling Mills (Hot & Cold)
- ❑ Direct Reduced Iron units
- ❑ Steel Recycling from the Ship Breaking Industry

ACCREDITATIONS/RECOGNITIONS

- ❑ NABL Accredited Chemical & Mechanical Lab
- ❑ Recognized by BIS for testing of 61 steel products as per IS.
- ❑ Empanelled as Accredited Energy Auditor with Bureau of Energy Efficiency ,Ministry of Power, Govt. of India.
- ❑ Bureau of Energy efficiency (Ministry of Power)- Member of Iron and Steel Sector –Technical committee (PAT cycles), Sectoral Advisory Group for supporting BEE.
- ❑ Recognized as Competent Persons by Director of Factories, Government of Punjab and Daman & Diu for safety Inspections

- ❑ Bureau of Indian Standards (Ministry of Consumer affairs) – Member of various Committees in MTD and CED
- ❑ Ministry of Steel –Parent Ministry – Member in nine task forces (Climate & Environment), Safety committee, Various Constituted committees
- ❑ Ministry of Environment, Forest and Climate Change – Member of High Level Expert Committee and Expert Committee for Iron and Steel Sector

ENERGY AUDITS

Many Energy Efficiency related projects were executed by NISST which includes Energy audits conducted in the steel industry, Mandatory Energy audits and M&V Audits of Designated consumers, Energy efficiency improvement projects.

SAFETY AUDIT/VERIFICATIONS/INSPECTION

Under the capacity of Competent Persons recognized by Director of Factories, Govt. of Punjab, UT of Daman & Diu and Dadra Nagar Haveli, NISST has conducted safety inspections and safety audits for the steel industry in the state of Punjab, UT of Daman & Diu and Dadra Nagar Haveli. Various training programs in the areas of industrial safety are being conducted for a safe environment in the industry.

TESTING LABS

Over the last one decade the NISST has been emerging as the main institution for providing testing facilities, conducting consultancy studies, energy audits and participating in various projects aimed at technological improvements in re-rolling industry. Few equipment were added/upgraded in last 5 years to keep the equipment/labs updated. Accordingly the following labs are operational in NISST's Mandi Gobindgarh campus.

- Mechanical Testing lab
- Chemical testing lab
- Metallography lab
- Pollution testing lab

Out of the above, Mechanical & Chemical testing labs are accredited with NABL. Also NISST has taken recognition for testing of 61 different steel products from Bureau of Indian Standards (BIS).

R & D ACTIVITIES

1. “Development of micro alloyed steels through induction furnace and controlled rolling route”. The results were encouraging. Fe-700 grade could be produced by using micro alloys through induction furnace.
2. “Production of low phosphorous steel using DRI through induction furnace route jointly with NML, Jamshedpur”. Industrial scale trials have been carried out in 3 different sizes of furnaces and reduced final phosphorous contents in steel using developed flux.
3. Project on computer simulation & E-Demonstration of a Reheating Furnace with the support of Govt. of India R&D.
4. R&D Project on Development of cost effective green technology for pre reduction of chromite ore in tunnel kiln and production of high carbon ferro chrome- in progress
5. R&D Project on development of cost effective refractory lining materials for induction melting furnace suitable for production of quality steel :phase ii (industrial trials) –in progress

IMPLEMENTATION OF RTI ACT. 2005

NISST has published information under section 4(1)(b) of the RTI Act, 2005 on its website www.nisst.org. Provisions of Right to Information Act, 2005 have been duly complied for processing the applications/requests received under RTI Act, 2005.

During 01st April, 2023 to 31st March, 2024, total 10 applications were received and all the 10 applications were disposed off. Online RTI one application is also received through RTI web portal viz. <http://rtionline.gov.in>

CONTRIBUTION FOR THE GROWTH OF STEEL INDUSTRY

- ❑ **Reduction in Energy consumption per ton of steel:** Contributed in reduction of Energy consumption by conducting shop-floor training and awareness programs at various levels, resulting into substantial saving of National wealth and abatement in air pollution level.
- ❑ **Reduction in material loss:** Contributed in reduction of scale loss by conducting shop-floor training and awareness programs at various levels, resulting to reduce their cost of production.
- ❑ Designing of reheating furnaces for SRRM sector.
- ❑ Contributed in improving the quality of steel product with various shop-floor trials
- ❑ Upgraded the technical knowledge of units on productivity improvements, cost control through various technical aspects e.g. implementation of Direct Rolling, Rejection Control etc.
- ❑ Conversion of Coal fire reheating furnaces to PNG fired furnaces at Mandi Gobindgarh, Punjab.
- ❑ Designing of Re heating furnaces for SRRM sector.
- ❑ Contributed in improvising the quality of steel product with various shop-floor trials
- ❑ NISST is working jointly with Secondary Steel Sector for undertaking cluster development programme Steel Making and Rolling Technologies. NISST focuses its activities and efforts keeping in view the National Steel Policy.

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CHAPTER -2

TESTING FACILITIES AVAILABLE IN NISST

CHEMICAL ENERGY & ENVIRONMENTAL LABORATORY

CHEMICAL ANALYSIS OF IRON & STEEL	SPONGE IRON ANALYSIS
<ol style="list-style-type: none">1. Basic 5 elements (i.e. C, Mn, Si, P & S) *2. Nickel*3. Chromium*4. Tungsten5. Molybdenum in steel*6. Aluminum*7. Copper*8. Titanium*9. Nitrogen*10. Total Carbon in Cast iron11. Silico - Manganese12. Vanadium*13. Boron14. Calcium15. Cobalt16. Tin17. Niobium	<ol style="list-style-type: none">1. Sponge Iron (Total Iron, Metallic iron, metallization)2. Total Carbon in Sponge iron3. Sulphur4. Phosphorus
	ANALYSIS OF GALVANIZED STEEL
	<ol style="list-style-type: none">1. Analysis of mass of zinc coating2. Uniformity test3. Adherence Test
FUEL ANALYSIS	AIR POLLUTION TESTING (STACK EMISSIONS)
<ol style="list-style-type: none">1. Moisture Content2. Viscosity Pre-heat Temp.3. Calorific Value (Coal or Oil)	<ol style="list-style-type: none">1. CO2. CO₂3. NO_x4. SPM5. SO₂6. Temperature7. Velocity
<u>DIRECT READING SPECTROMETER TESTINGS</u> <ol style="list-style-type: none">1. Elemental analysis of Steels & Cast Iron for 26 elements and Grade determination & Total Fe, Grade Determination/CE.	

MECHANICAL & NDT LABORATORY

Test/Analysis	SAFETY INSPECTION
<ol style="list-style-type: none"> 1. Tensile/Compression Test by UTM (TS, YS, % Elongation)* 2. Nut/Bolt Test (Tensile Type) 3. Bend Test* 4. Re-bend Test* 5. Double Shear Test 6. Drift Expanding (for tubes) 7. Flattening (for tubes) 8. Hardness Rockwell/Brinell* 9. Impact Testing (Izod/Charpy) * (Room Temperature Zero and Sub Zero upto -40° C) 10. Erichson Cupping 11. Dynamic/Impact Hardness Test (SHORE)* 12. Ultra Sonic Test 13. Magna flux 14. Measurements of Tolerances / Dimensions /Thickness* 15. Weight per unit length* 16. Twist (for tubes) 17. Rib Test* 18. Surface inspection of Ingots* 19. Pullout test* 20. Compression test* 21. Surface roughness* 22. Strain ageing 23. N value* 24. R value* 25. Bake hardening 26. Y groove* 27. Camber 28. Rolling mass 29. Crown 30. Flattening* 31. Strain measurement* 32. Freedom from defect 33. Surface finish 34. Straightness workmanship 35. Pipe/tube ends 36. Hydrostatic test 37. Bend for strip 180°* 38. Crushing 39. Bend of whole pipe 90°* 40. Eccentricity 41. Fracture disc test 42. Crop test of bar 43. Cold shearability 44. Deflection 45. Shear strength 46. Ageing embrittlement 47. Fracture toughness 	<ol style="list-style-type: none"> 1. Crane Testing 2. Chain Pulley Block 3. Chain Sling 4. Pressure vessel 5. Hydraulic testing of pressure vessel 6. Dangerous Machinery 7. Hydra Testing (Portable EOT) 8. Fork Lift 9. Lift

Note: (*) Marked tests conducted under NABL

• **ELECTRICAL LABORATORY**

1. Transformer Oil Dehydration
2. Transformer Oil Testing
3. Earth Testing

TESTING OF DIFFERENT PRODUCTS UNDER BIS

S.No.	IS Number	Product
01.	IS 210	Grey iron castings – Specification (First Revision)
02.	IS 277	Galvanized steel strips and sheets (Plain And Corrugated) – Specification (Seventh Revision)
03.	IS 432 : Part 1	Mild Steel and Medium Tensile Steel Bars and Hard-Drawn Steel Wire for Concrete Reinforcement: Part 1 Mild Steel and Medium Tensile Steel Bars
04.	IS 432 : Part 2	Mild Steel and Medium Tensile Steel Bars and Hard-Drawn Steel Wire for Concrete Reinforcement: Part 2 Hard-Drawn Steel wire
05.	IS 513 : Part 1	Cold reduced carbon steel sheet and strip: Part 1 cold forming and drawing purpose (Sixth Revision)
06.	IS 513 : Part 2	Cold reduced carbon steel sheet and strip: Part 2 high tensile and multi – Phase steel (Sixth Revision)
07.	IS 963	Specification for chrome molybdenum steel bars and rods for aircraft purposes
08.	IS 1029	Specification for hot-rolled steel strip (Baling) (First Revision)
09.	IS 1038	Specification For Steel Doors, Windows And Ventilators
10.	IS 1079	Hot rolled carbon steel sheet, plate and strip – Specification (Seventh Revision)
11.	IS 1110	Ferrosilicon – Specification (Fourth Revision)
12.	IS 1171	Ferro Manganese
13.	IS 1341	Steel Butt Hinges – Specification (Sixth Revision)
14.	IS 1470	Silico Manganese
15.	IS 1566	Specification for hard – Drawn steel wire fabric for concrete reinforcement (Second Revision)
16.	IS 1786	High strength deformed steel bars and wires for concrete re – inforcement – Specification (Fourth Revision)
17.	IS 2039 : Part 1	Steel tubes for bicycle and cycle rickshaws – Specification (Second Revision)
18.	IS 2039 : Part 2	Steel tubes for bicycle and cycle rickshaws – Specification (Second Revision)
19.	IS 2039 : Part 3	Steel tubes for bicycle and cycle rickshaws – Specification (Second Revision)
20.	IS 2062	Hot rolled medium and high tensile structural steel – Specification (Seventh Revision)
21.	IS 2255	Specification for mild steel wire rod for the manufacture of machine screws (By Cold Heading Process) (Second Revision)
22.	IS 2385	Specification for hot – Rolled mild steel sheet and strip in coil form for cold – Reduced tinplate and cold – Reduced black plate (First Revision)
23.	IS 2507	Specification for cold – rolled steel strips for springs (First Revision)

24.	IS 2830	Carbon steel cast billet ingots, billets, blooms and slabs for re-rolling into steel for general structural purposes – Specification (Third Revision)
25.	IS 2831	Carbon steel cast billet ingots, billets, blooms and slabs for re-rolling into structural steel (Ordinary Quality) – Specification (Fourth Revision)
26.	IS 2879	Mild steel for metal arc welding electrodes – Specification (Third Revision)
27.	IS 3039	Specification for structural steel for construction of hulls of ships (Second Revision)
28.	IS 3195	Steel for the manufacture of volute and helical springs (For Railway Rolling Stock) – Specification (Third Revision)
29.	IS 3502	Steel chequered plates (Third Revision)
30.	IS 4224	Specification for steel wire for staples, pins and clips (First Revision)
31.	IS 4368	Specification for alloy steel billets, blooms and slabs for forging for general engineering purposes
32.	IS 4397	Cold – Rolled carbon steel strips for ball and roller bearing cages retainers – Specification (Second Revision)
33.	IS 4398	Carbon – Chromium steel for the manufacture of balls, rollers and bearing races – Specification (Second Revision)
34.	IS 5489	Specification for carburizing steels for use in bearing industry (First Revision)
35.	IS 5522	Stainless steel sheets and strips for utensils – Specification (Third Revision)
36.	IS 5651	Specification for steels for pneumatic tools (First Revision)
37.	IS 5986	Hot rolled steel sheet, plate and strip for forming and flanging purposes – Specification (Fourth Revision)
38.	IS 6240	Hot rolled steel plate (Up To 6 Mm) sheet and strip for the manufacture of low pressure liquefiable gas cylinders (Fourth Revision)
39.	IS 6902	Specification for steel wire for spokes
40.	IS 6967	Specification for steels for electrically welded round link chains
41.	IS 7174	Carbon Steel tubes for use on board on board ships for working pressure 0.7 to 1.7n/mm ²
42.	IS 7283	Hot – Rolled bars for the production of bright bars and machined parts for engineering applications specification (First Revision)
43.	IS 7494	Specification for steel for valves for internal combustion engines (First Revision)
44.	IS 7887	Mild steel wire rod for general engineering purposes – Specification (First Revision)
45.	IS 7904	High carbon steel wire rods – Specification (Second Revision)
46.	IS 8036	Mild Steel transformer cooling tubes

47.	IS 8052	Steel ingots, billets and blooms for the production of springs, rivets and screws for general engineering applications – Specification (Second Revision)
48.	IS 8952	Steel ingots, blooms and billets for production of mild steel wire rods for general engineering purposes – Specification (First Revision)
49.	IS 9516	Specification for heat resisting steels
50.	IS 9550	Bright steel bars – Specification (First Revision)
51.	IS 9962	Specification for steel wire for needles
52.	IS 10748	Hot – Rolled steel strip for welded tubes and pipes – Specification (Second Revision)
53.	IS 11169 : Part 1	Specification for steels for cold heading/cold extrusion applications: Part 1 wrought carbon and low alloy steels
54.	IS 11513	Hot rolled carbon steel strip for cold rolling purposes – Specification (Second Revision)
55.	IS 11587	Specification for structural weather resistant steels
56.	IS 12146	Specification for carbon manganese steel forgings for pressure vessels
57.	IS 14491	Low carbon high strength cold rolled steel sheets and coils for cold forming – Specification
58.	IS 15103	Fire resistant steel – Specification
59.	IS 15647	Hot rolled steel narrow width strip for welded tubes and pipes
60.	IS 15914	High tensile strength flat rolled steel plate (Up To 6 Mm), sheet and strip for the manufacture of welded gas cylinder – Specification
61.	IS 15997	Low nickel austenitic stainless steel sheet and strip for utensils and kitchen appliances – Specification

CHAPTER-3

MAJOR FOCUS AREAS

- Testing Services (NABL Accredited & BIS Recognized)
- Energy Audits
- Monitoring And Verification Audits (M&V Audits)
- Industrial Consultancy & Services
- Pollution Assessment (Combustion Studies)
- Vetting Of Designs Of Re-Heating Furnaces
- CAD/CAM/CAE TRAINING
- Safety Inspection Of Factories
- Safety Audit Of Factories
- Unit Capacity Assessment (Yield Assessment)
- Skill Development Programmes For Shop Floor Personnel
- Fail Ureanalysis

PRESENT ACTIVITIES

- Industrial consultancy, Training
- Energy Audits (*Accreditation from Bureau of Energy Efficiency, Ministry of Power, GOI*)
- Safety Inspection (*Competent persons for safety inspection from Govt. of Punjab and UT of Daman & Diu and Dadra Nagar Haveli for safety Inspections.*)
- Lab Testing (*NABL Accreditation & BIS recognition of Mechanical & Chemical Labs*),
- Research and Development
- Transparency Audit.

HRD ACTIVITIES

Human Resource development activities are being continuously undertaken to improve knowledge and skill of the employees of the secondary steel sector through Modular Course/In house training programme/Skill development course. Major focus is on In-house training programs in Iron and Steel Sector spread over in the entire country.

IMPORTANT TOPICS

- Process technology of Blast Furnace
- Sinter making technology
- Coke making technology
- Pellet making technology
- Sponge Iron making
- Steel making by EAF & EIF route
- Alloy steel making in Ladle furnace
- Continuous casting of steels
- Energy efficiency in reheating furnaces
- Rolling of plates, Bars & wire rods
- Mettallurgy of steel for Non-mettalurgists
- Energy Audit Training
- Industrial Safety

CHERISHED CLIENTS

- NMDC Iron & Steel Plant, Nagarnar
- UNDP
- NML, Jamshedpur
- Shadeed Iron and Steel, Sohar, Oman
- Jindal Steel & Power Limited
- Uttam Galva Metallics, Wardha
- Kalyani Steels
- Sunflag
- Mahalaxmi TMT Pvt. Ltd.,
- Madhav Group (SMS divn.)
- SRMB, Durgapur
- SAIL
- GIZ
- Viraj Profiles Ltd.,
- Mukund Sumi Special Steel Ltd.,
- Indian Iron & Steel Sector Skill Council (IISSSC)

CHAPTER-4

DETAILS OF ACTIVITIES CARRIED OUT DURING 2023-24

SEMINARS & WORKSHOPS:

S.No.	Topic	Held on	Place
01	SEMINAR ON“ Performance & Resource Optimization Through Low Carbon and Advanced Technologies”	28 th April, 2023	Kolkata
02	Consultative Workshop on “Technologies and Financial Strategies for Secondary Steel/DRI Sector	12th Jan, 2024	Raipur

WEBINARS ON BEHALF OF GIZ AS PER FOLLOWING:

An assignment for dissemination of knowledge about Energy Efficiency in Secondary Steel Sector comprising of EAF, EIF & Rolling Mills through webinars was awarded by GIZ to NISST. In this regard, out of 2 webinars, NISST has conducted as per following details.

S.No.	Subject of Webinar	Held on	No of Participants
1	Heat Balance in Electric Arc Furnace with Case study	27 th June, 2023	52
2	Waste Heat Recovery (Recuperator) in Reheating Furnaces	28 th June, 2023	45
TOTAL			97

ENERGY AUDITS:

S.No.	Name of the Unit
01	Energy Audit of SMS Division of M/s Viraj Profiles, Boisar.
02	Energy Audit of SRM Division of M/s Viraj Profiles, Boisar.
03	VSL/WRM Division M/sViraj Profiles
04	M/s Goyal Malleables, Mandi Gobindgarh
05	M/s. Petro Pol India Ltd., Bhiwadi

SAFETY INSPECTION & AUDITS:

1. On site safety inspections have been carried out in 70 units during April'23 to March'24.
2. Safety audits have been conducted in 20 induction furnace and rolling mill plants in Silvasa & Daman

CONSULTANCY SERVICES:

S.No.	Organization	Subject
1	M/s NIFS Steels, Bhiwadi	A flue gas analysis study
2	M/s. Gasha Steels, Palakkad	Consultancy on installation of SMS for Direct Rolling &, Roll Pass Design Analysis
3	M/s. Ratnamani Metals and Tubes Ltd., Ahmedabad	Expert Opinion on Environment
4	M/s. Pushpanjali Strips, Mandi Gobindgarh,	Designing of Reheating Furnace
5	M/s. Raj Steels Rolling Mills, Mandi Gobindgarh	Combustion Study
6	M/s. Karam Steel Corporation, Mandi Gobindgarh	Sound Verification
7	M/s. Rajtech Ventures, Mandi Gobindgarh.	PNG commissioning study
8	M/s Mahalakshmi Steels, Ludhiana	Energy efficiency improvement study
9	M/s Lakshmi Steels, Khanna	Combustion study
10	M/s Aarti Steels International Ltd., Ludhiana	Energy efficiency improvement study
11	M/s. AISRA, MGG	Consultancy on environmental emissions from Steel Industries
12	M/s Enershell Alloys & Steel (P) Ltd	Technical opinion on energy consumption
13	M/s JSPL, Raigarh	Expert guidance on enhancing productivity in DRI.

TRAINING PROGRAMMES:

Sr. No.	Topic	Duration	Held on	No. of Students
1	Basics of Roll Pass Design	02 days	April 7 th to 8 th , 2023	60
2	Iron and Steel making	06 days	19 th May to 25 th May 2023	34
3	Grades of Steel,	01 day	5 th Jun, 2023	25
4	7 QC Tools	01 day	6 th June, 2023	25
5	Iron and steel making and rolling	04 days	16 th to 20 th June, 2023	08
6	Iron making	06 days	13 th to 19 th July, 2023	26
7	Steel Making, Rolling	6 days	8 th Aug to 14 th Aug, 2023	26
8	Iron Making, Steel making, Rolling	6 days	Aug 28 th to 2 nd Sept, 2023	29
9	Iron making, Steel making, Rolling	6 days	6 th Oct to 12 th Oct 2023	34
10	NDT courses at NISST complex, Mandi Gobindgarh, Punjab	03 months	W.E.F 23 rd January	17 - offline 233- online
Total				483

DEVELOPMENT OF FOUR QUALIFICATION PACKS:

1. Process Control Engineer- EAF Level 5.5
2. Process Control Engineer- Sponge Iron/DRI Level 5.5
3. Process Control Operator- Induction Furnace Level 4.5
4. Process Control Engineer- Basic Oxygen Furnace (BOF) Level 6

TESTINGS:

NAME OF TESTING	NO.OFTESTS
Chemical &Energy Testing	358
Metallography	83
Mechanical	399
Safety Inspection	296

MISCELLANEOUS ACTIVITIES:

1. DOMAIN SPECIFIC TRAINING PROGRAMS TO MINISTRY OF STEEL

EMPLOYEES: A 24 hours training program was designed for ASOs which was sent to MoS in Feb. Certain issues of the Ministry were addressed.

2. ALL INDIA STEEL CONCLAVE AT RAIPUR – PRESENTATION:

Presented paper about DRI, Induction Furnace and Rolling Mills in the event organized by Steel Mint, CSRA and CGMSPA on March 26th & 27th, 2023 at Raipur.

3. VIRTUAL SUMMIT REGARDING STRENGTHENING OF TRAINING

INSTITUTIONS: A virtual summit was held on 19th April under the chairpersonship of M/s.Swapna Bhattacharya, DDG, Ministry of Steel. Comments were also sent to them. We have informed the Ministry that NISST has prepared training material for capacity building of civil servants for uploading. NISST also informed that NISST had designed a 24 hours training program for ASOs of Ministry of Steel.

4. INFORMATION TO ECONOMIC ADVISER, MINISTRY OF STEEL:

A gist of 3 months activities (Feb-April, 2023) and future plan for next 6 months (May- Oct, 2023) was prepared and sent to the Economic Adviser, Ministry of Steel on 30th May.

5. STRENGTHNING OF NISST – PLAN TO MoS:Action plan submitted to the Ministry on 04th May, 2023.

6. MEETINGS WITH MINISTRY OF STEEL:An online meeting on Coal demand in Sponge Iron Sector conducted EA section was attended on 27th July. Minutes are yet to be received.

7. 20 KW SOLAR PLANT FOR NISST BUILDING ROOFTOP:Solar generation during the month of April to July'23 was around 8819 KWH. Electricity bills are coming as per actual import/export.

8. PRESENTATION TO SECRETARY STEEL:A presentation was given to Secretary, Steel on 01.08.2023 regarding progress and status of study conducted in Bhavnagar/Sihor/Alang, Gujarat during 16 July 2023 to 21 July 2023 to explore the feasibility of manufacturing TMT bars as per IS 1786 using the ship breaking plates reclaimed from ship breaking at Alang ship breaking yard paid visit to Alang and Sihor. Final outcome is being discussed with other members of committee.

9. CLOSURE REPORT TO GIZ FOR WEBINARS CONDUCTED:A closure Report has been submitted on 29th Sept. The Report has been accepted.

10. NABL AUDIT:NABL audit has been conducted in labs on 14th, 15th, 17th & 18th October, 2023. Received the renewal certification along with its scope.

11. Final report of the committee constituted by Ministry of Steel to explore the feasibility of using ship breaking steel plates to produce TMT bars under IS1786 was submitted to MoS.

12. Meeting of the first & second technical committee for steel under Indian Carbon Market were held on 09.11.2023 & 17.11.2023.

13. VISIT OF SECRETARY STEEL: Secretary Steel visit NISST Campus, Mandi Gobindgarh, Punjab on 11.12.2023.

14. 20 KW SOLAR PLANT FOR NISST BUILDING ROOFTOP: Solar generation during the month of August, 2023 to January, 2024 was around 9058 KWH. Electricity bills are coming as per actual import/export.

CHAPTER-5

MANPOWER

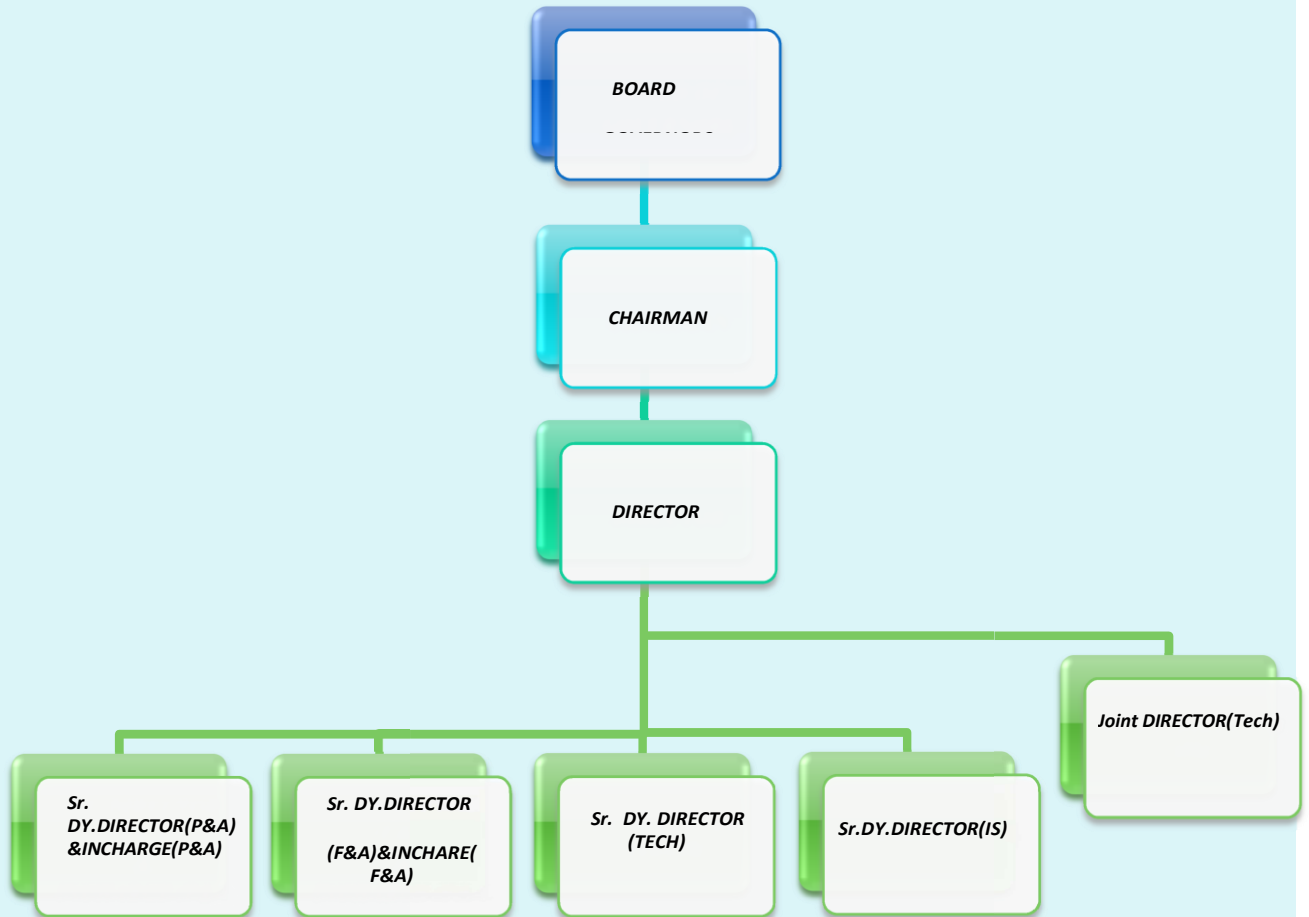
Total Man Power Strength of the Institute : 32 (As on 31.03.2024)
No. of Executives : 05 {03 Technical (Inclusive of Director) + 2 Non-Technical}
No. of Non- Executives : 09 (03 Technical + 06 Non-Technical)
No. of Multi-Tasking Staff : 04
No. of Contractual Staff : 14

Distribution of the Manpower:

Centre	Executives		Non executives		MTS Staff	Contractual Staff	Total
	Technical	Non-Technical	Technical	Non-Technical			
MANDI GOBINDGARH, PUNJAB	03	02	03	06	04	14	32
Total							32+1*

***One Executive on deputation to MOS Delhi.**

Organisation Chart of NISST



LIST OF BOARD MEMBERS

<u>NAME & ADDRESS</u>	<u>TELEPHONE / FAX NO</u>
01. Ms. Ruchika Chaudhry Govil, IRS Additional Secretary, & Chairperson, NISST, Ministry of Steel, Government of India, Udyog Bhawan, NEW DELHI - 110001	(O) 011-23063297 E-mail: ruchika.govil@nic.in , Mob-9810009919
02. Shri Devidatta Satapathy, Director, Ministry of Steel, Government of India, Udyog Bhawan, NEW DELHI – 110001	(O) 01123062386 E-mail: devidatta.satapathy@gov.in , Mobile: 9589850902
03. Shri Ranjan Bandyopadhyay, Executive Secretary, JPC Ispat Niketan, 52/1A, Ballygunge Circular Road, KOLKATA – 700 019	(O) 033 - 24614053 (Fax) 033 - 24614063 E-mail: jpc-wb@nic.in , ranjan_ban@yahoo.com , Mobile : 9051355505
04. Shri Parmjeet Singh, Addl. Industrial Advisor Ministry of Steel, Udyog Bhawan, NEW DELHI – 110001	(O) 011-23061587 Mobile : 7709959818 E-mail- pjsd21@gmail.com , parmjeet.singh@gov.in ,
05. Shri H L Bhardwaj Secretary General Federation of Industries of India 207, 2 nd Floor, United Plaza, Karkardooma Community Centre, DELHI – 110 092	(O) 011–22372201-02 (Fax) 011- 22370059 Mobile : 09811959902 E-mail : federationorg@gmail.com ,
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