

QUALITY ASSURANCE & MATERIAL TESTING INFRASTRUCTURE REPORT

Compliance Declaration for In-House Testing (DPT) and MOU (PAUT, UT, Physical & Chemical Testing)

1. EXECUTIVE SUMMARY & TESTING ARCHITECTURE

This report certifies the comprehensive material testing and Non-Destructive Testing (NDT) setup established by **M/s Jyoti Forge & Fabrication Pvt. Ltd. (Mirza Unit)** to meet all requirements under RDSO revised STR Para 5.14(b), AWS D1.1/D1.5, IS, and ASTM standards. The facility operates an approved **In-House Testing Facility** for Dye Penetrant Testing (DPT/LPT) using certified DP kits alongside an active **65-Month Strategic MOU** with **M/s Inspection Survey & Surveillance (India) Pvt. Ltd.** for Conventional Ultrasonic Testing (UT), Phased Array Ultrasonic Testing (PAUT), and Laboratory Physical & Chemical analysis.

2. MATERIAL TESTING CAPABILITY & SOURCING MATRIX

TESTING DOMAIN	EXECUTION MODE	EXECUTING AGENCY / SETUP	GOVERNING STANDARDS	INSPECTOR QUALIFICATION
Dye Penetrant Testing (DPT / LPT)	IN-HOUSE FACILITY	Jyoti Forge & Fabrication (Mirza Unit) – In-House DP Kit & Inspection Station	ASTM E165 / IS 3658 / ASME Sec V Art. 6	Certified ASNT Level II NDT Inspector
Conventional Ultrasonic Testing (UT)	MOU PARTNER	M/s Inspection Survey & Surveillance (India) Pvt. Ltd. (On-Site at Mirza Unit)	RDSO STR Para 5.14(b) / IS 4225 / ASTM A435 / AWS D1.1	ASNT / ISNT Level II Qualified UT Operator
Phased Array Ultrasonic Testing (PAUT)	MOU PARTNER	M/s Inspection Survey & Surveillance (India) Pvt. Ltd. (On-Site at Mirza Unit)	RDSO STR Para 5.14(b) / AWS D1.5 / ASTM E2700	Certified ASNT / ISNT Level II / Level III Specialist
Physical & Mechanical Testing (Tensile, Yield, %Elongation, Impact, Bend)	MOU PARTNER	M/s Inspection Survey & Surveillance (India) Pvt. Ltd. (Kolkata NABL Lab)	IS 2062 / IS 1608 / ASTM A370 / IS 1757	Approved Metallurgical Testing Engineers
Chemical Composition Analysis (C, Mn, Si, S, P, CE, Micro-alloys)	MOU PARTNER	M/s Inspection Survey & Surveillance (India) Pvt. Ltd. (Kolkata NABL Lab)	ASTM E415 / IS 8811 / Optical Emission Spectroscopy	Approved Analytical Chemists

3. OPERATIONAL INFRASTRUCTURE & STATUTORY AGREEMENTS

A. IN-HOUSE DPT / LPT TESTING FACILITY Equipment & Consumables: Approved Standard Dye Penetrant (DP) Kits comprising solvent cleaner/remover, visible red dye penetrant, and non-aqueous wet developer. Standards: ASTM E165 / ASTM E1417 / IS 3658 & ASME Sec V. Personnel Qualification: Souradip Samanta (ASNT Level II in LPT / NDT Methods). Certificate Ref: IMTE-FBD-04-2022-LPT-3998 (Evaluated per ASNT SNT-TC-1A). Testing Scope: 100% root run inspection, weld edge prep bevels, back-gouged roots, and structural fillet/butt weld surfaces.	B. STRATEGIC MOU: ISS (INDIA) PVT. LTD. Partner Laboratory: M/s Inspection Survey & Surveillance (India) Pvt. Ltd., 21 & 26D Park Lane, Kolkata-700016. MOU Compliance: Executed pursuant to RDSO revised STR Para No 5.14(b) (Valid for 65 Months). On-Site UT & PAUT: Calibrated multi-channel PAUT and digital ultrasonic flaw detectors, certified probes, wedges, and calibration reference blocks mobilized at Mirza Unit. Off-Site Testing: Coupon samples for chemical spectrometry and physical universal tensile/Charpy impact testing with certified test reports.
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4. QUALITY DECLARATION & COMPLIANCE ASSURANCE

COMPLIANCE STATEMENT 1. Full Inspection Coverage: End-to-end quality assurance covering raw material verification (spectro chemical & physical tensile/impact), in-process weld examination (DPT root/cap), and volumetric non-destructive examination (UT & PAUT) for structural bridge girders. 2. Traceability & Calibration: All in-house DP kits have valid batch compliance, and all external ultrasonic equipment holds traceable calibration to national/international standards. 3. Regulatory Compliance: Fully compliant with RDSO STR Para 5.14(b) and client Quality Assurance Plans (QAP).
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Prepared & Inspected By:
Souradip Samanta (ASNT Level II)
Planning & Quality Control Engineer
Jyoti Forge & Fabrication Pvt. Ltd.

Approved & Authorized By:
Authorized Signatory / Plant Head
Jyoti Forge & Fabrication Pvt. Ltd. (Mirza Unit)

Memorandum of Understanding

Pursuant of agreement between **M/s JYOTI FORGE & FABRICATION PVT LTD** and **M/s INSPECTION SURVEY & SURVEILLANCE (INDIA)PVT.LTD** wherein M/s INSPECTION SURVEY & SURVEILLANCE (INDIA)PVT.LTD has agreed to carry out **Physical & Chemical & Ultrasonic Testing** in compliance with RDSO revised STR

The agreement is elaborated as follows:-

Scope of Work: INSPECTION SURVEY & SURVEILLANCE (INDIA)PVT.LTD shall be doing the testing of material as per the requirement of M/s Jyoti Forge & Fabrication Pvt Ltd (Mirza Unit).,specifically executing Phased Array Ultrasonic Testing (PAUT).

Testing: Physical & Chemical Testing Sample Required For testing will be sent by Jyoti Forge & Fabrication Pvt Ltd ,The Ultrasonic testing shall be carried out exclusively at the respective manufacturing units of M/s Jyoti Forge & Fabrication Pvt Ltd (Mirza Unit) Near Mirza Railway Station, Assam-781125 by a qualified UT operator provided by M/s INSPECTION SURVEY & SURVEILLANCE (INDIA)PVT.LTD.

Personnel Qualification: Personnel deployed by M/s INSPECTION SURVEY & SURVEILLANCE (INDIA)PVT.LTD.for performing UT and interpreting the scan results must hold a valid, current certification of minimum ASNT/ISNT Level II or Level III inUltrasonic Testing. Copies of valid certifications shall be submitted M/s Jyoti Forge & Fabrication Pvt Ltd (Mirza Unit). prior to the commencement of any work.

Equipment & Calibration: M/s INSPECTION SURVEY & SURVEILLANCE (INDIA)PVT.LTD.shall be responsible for providing all necessary UT equipment, probes, reference blocks, and related accessories. All testing equipment utilized must possess valid calibration certificates traceable to recognized national or international standards. It is the responsibility of M/s INSPECTION SURVEY & SURVEILLANCE (P) LTD to maintain calibration validity throughout the tenure of this agreement.

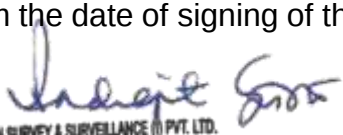
Testing Standards: All procedures, execution, and acceptance criteria shall be in accordance to define AWS/IS/ASTM Standard etc., alongside specific RDSO guidelines as applicable.

Reporting & Certification: After testing, Test Certificates and detailed reports shall be issued by M/s INSPECTION SURVEY & SURVEILLANCE (INDIA)PVT.LTD 21 &26D,Park Lane Kolkata-700016 as and when required by M/s Jyoti Forge & Fabrication Pvt Ltd

Commercial Terms: Charges for Material testing shall be borne by M/s Jyoti Forge & Fabrication Pvt Ltd (Mirza Unit) Near Mirza Railway Station, Assam-781125

Validity: This MOU Valid for the period of 65 months from the date of signing of this MOU.


Authorized Signatory
M/s Jyoti Forge & Fabrication (Mirza Unit)
Near Mirza Railway Station,
Kamrup, Assam-781125
Date:11.02.2026


INSPECTION SURVEY & SURVEILLANCE (I) PVT. LTD.
Authorized Signatory
INSPECTION SURVEY & SURVEILLANCE (INDIA)PVT.LTD
21,26D Park lane,Kol-16
Date:14.02.2026

Memorandum of Understanding

Pursuant of agreement between **M/s JYOTI FORGE & FABRICATION PVT LTD** and **M/s INSPECTION SURVEY & SURVEILLANCE (INDIA)PVT.LTD** wherein M/s INSPECTION SURVEY & SURVEILLANCE (INDIA)PVT.LTD has agreed to carry out Phased Array Ultrasonic Testing (PAUT) in compliance with RDSO revised STR Para No 5.14(b).

The agreement is elaborated as follows:-

Scope of Work: INSPECTION SURVEY & SURVEILLANCE (INDIA)PVT.LTD shall be doing the testing of material as per the requirement of M/s Jyoti Forge & Fabrication Pvt Ltd (Mirza Unit), specifically executing Phased Array Ultrasonic Testing (PAUT).

Location of Testing: The PAUT shall be carried out exclusively at the respective manufacturing units of M/s Jyoti Forge & Fabrication Pvt Ltd (Mirza Unit) Near Mirza Railway Station, Assam-781125 by a qualified PAUT operator provided by M/s INSPECTION SURVEY & SURVEILLANCE (INDIA)PVT.LTD.

Personnel Qualification: Personnel deployed by M/s INSPECTION SURVEY & SURVEILLANCE (INDIA)PVT.LTD. for performing PAUT and interpreting the scan results must hold a valid, current certification of minimum ASNT/ISNT Level II or Level III in Ultrasonic Testing / Phased Array Ultrasonic Testing. Copies of valid certifications shall be submitted M/s Jyoti Forge & Fabrication Pvt Ltd (Mirza Unit). prior to the commencement of any work.

Equipment & Calibration: M/s INSPECTION SURVEY & SURVEILLANCE (INDIA)PVT.LTD. shall be responsible for providing all necessary PAUT equipment, probes, reference blocks, and related accessories. All testing equipment utilized must possess valid calibration certificates traceable to recognized national or international standards. It is the responsibility of M/s INSPECTION SURVEY & SURVEILLANCE (P) LTD to maintain calibration validity throughout the tenure of this agreement.

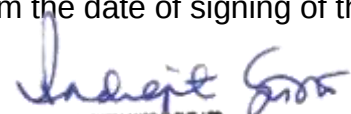
Testing Standards: All PAUT procedures, execution, and acceptance criteria shall be in accordance to define AWS/IS/ASTM Standard etc., alongside specific RDSO guidelines as applicable.

Reporting & Certification: After testing, Test Certificates and detailed PAUT scan reports shall be issued by M/s INSPECTION SURVEY & SURVEILLANCE (INDIA)PVT.LTD 21 & 26D, Park Lane Kolkata-700016 as and when required by M/s Jyoti Forge & Fabrication Pvt Ltd

Commercial Terms: Charges for Material testing shall be borne by M/s Jyoti Forge & Fabrication Pvt Ltd (Mirza Unit) Near Mirza Railway Station, Assam-781125

Validity: This MOU Valid for the period of 65 months from the date of signing of this MOU.


Authorized Signatory
 M/s Jyoti Forge & Fabrication (Mirza Unit)
 Near Mirza Railway Station,
 Kamrup, Assam-781125
Date: 14.04.2026


 INSPECTION SURVEY & SURVEILLANCE (I) PVT. LTD.
Authorized Signatory
INSPECTION SURVEY & SURVEILLANCE (INDIA)PVT.LTD
 21, 26D Park lane, Kol-16
Date: 14.04.2026



INSPECTION SURVEY & SURVEILLANCE(INDIA)PVT.LTD.
21 &26D,Park Lane Kolkata-700016
Phones: +91 7604088809

NDT Certificate

Cert. No - INS/PAUT/005

This is to certify that

Mr. Jayan Paul

has successfully completed training course in NDT in accordance with the requirments of training as per Insurvey Written Practice No : INSURVEY/WP/01 Rev 0 Issue 01 based on ASNT document No.: **SNT-TC- 1A**

of

American Society for Nondestructive Testing

and demonstrated proficiency by satisfactory completion of the examinations in the method as mentioned herein

PHASED ARRAY ULTRASONIC TESTING - LEVEL II

Educational Qualification: Btech

Experience in NDT Method: 36 Months

Result of Vision Examination: Acceptable

Training Hours: 80 hours

Evidence of Examination: Attached

Technique: Phased Array Ultrasonic Testing

Results of the examinations is given below

EXAMINATION	MINIMUM GRADE REQUIRED(%)	GRADE OBTAINED (%)
GENERAL	70.0	92.50
SPECIFIC	70.0	90.00
PRACTICAL	80.0	95.45
COMPOSITE GRADE(AVG)	80.0	92.65

Date of certification: 20/07/2024

Date of Expiry: 30/07/2029

Date of Assignment to NDT: 20/07/2023

INSPECTION SURVEY & SURVEILLANCE (I) PVT. LTD.
DEBJYOTI SENGUPTA

ASNT NDT LEVEL III (RT, MT, UT), CERT. NO. :- 240527

Signature of the Level III

that verified the qualification for Certification



INDRAJIT GUPTA

PCN LEVEL III :- RT, UT, MT, PT, ToFD, ET

PCN NO. :- 328891

ASNT LEVEL III :- UT, RT, MT, PT, VT, ET

ASNT NO. :- 112004

Signature of Certifying Authority

JYOTI-FORGE & FABRICATION PVT. LTD.

Authorised Signatory



National Accreditation Board for
Testing and Calibration Laboratories

CERTIFICATE OF ACCREDITATION

**INSPECTION, SURVEY & SURVEILLANCE (INDIA) PVT.
LTD.**

has been assessed and accredited in accordance with the standard

ISO/IEC 17025:2017

**"General Requirements for the Competence of Testing &
Calibration Laboratories"**

for its facilities at

327, R.N. GUHA ROAD, KOLKATA, WEST BENGAL, INDIA

in the field of

TESTING

Certificate Number: TC-14383

Issue Date: 29/08/2024

Valid Until: 28/08/2026

This certificate remains valid for the Scope of Accreditation as specified in the annexure subject to continued satisfactory compliance to the above standard & the relevant requirements of NABL.

(To see the scope of accreditation of this laboratory, you may also visit NABL website www.nabl-india.org)

Name of Legal Entity: INSPECTION SURVEY AND SURVEILLANCE (INDIA) PVT. LTD.

Signed for and on behalf of NABL



N. Venkateswaran
Chief Executive Officer

JYOTI-FORGE & FABRICATION PVT. LTD.

Authorised Signatory