

NAT BUSINESS SOLUTIONS



Regd. Office : C-1, Maa Sharda Apartment, Road No. 6, Ramnagar kadma, Jamshedpur - 831005

Corp. Office: TR Type, Road No 3, BS Shop Area Bistupur, Jamshedpur - 831001.

Cell No. : 9570771126, 8340638448, E-mail Id : info@natsolutions.in, Website : www.natsolutions.in

Form No.8

(Prescribed under Section 31 of Factory Act, 1948) (See Rule - 57)

REPORT OF EXAMINATION OF PRESSURE VESSEL

Certificate No: NAT/JSR/PV/TSKIM/005/2024	Date: 28/02/2024
Name of the Factory and Occupier	M/s. TATA STEEL LTD, (KIM)
Situation & Address of the Factory	KHONDBOND IRON ORE MINES, PRIMARY CRUSHER, TATA ST
Name, Description & Identification No. of the Pressure Vessel	ITEM:- NITROGEN AIR TANK CAPACITY:- 4 m3 SRL.NO:- 23455 LOCATION:- Equipment section
Name and Year of Manufacturer	Rednal Pneumatics Limited & 2010
Nature of process in which it is used	FOR PLANT PROCESS
Particulars of vessel	
a) Year of Manufacturer	N.A
b) Date of Commissioning in Service	N.A.
c) Thickness of walls	12.0 mm
d) Safe Working Pressure (as recommended by Manufacturer)	13 kg/cm2
e) The history should be briefly given and the examiner should state whether he has seen the last/previous report	NAT/JSR/PV/TSKIM/002/2023, Dtd:- 04-09-2023 Tested By Su.
Date of last Hydro Test (if any) and Pressure applied	N.A
Is the vessel is open, or otherwise exposed to weather or to damp?	N.A.
What parts, if any, were inaccessible?	Safety valve & Pressure gauge.
1. What examinations were made? (Specify Pressure if Hydraulic Test was carried out)	Thorough Physical Examination & Ultrasonic Thickness Test.
2. Condition of the Vessel (State & Defects materially affecting the safeworking pressure or the working of the Vessel)	External : Good Internal : Inaccessible
3. Are fittings & appliances provided in accordance with the rules for Pressure Plants? (Name fittings & appliances provided)	Pressure gauge, Safety Valve & Drain Valve.
4. Are all fittings and appliances properly maintained and in good condition? If not the defects should be recorded	YES
5. Repairs (if any required and period within which they should be executed and any other condition which the person making the examination thinks necessary to specify for safe working).	No major defect affecting the safe working has been observed at the time of examination.
6. Safe Working Pressure calculated from dimensions and from thickness and other data ascertained by the present examination, due allowance being made for condition of working if unusual or exceptionally serve (state minimum thickness of walls measured during the examination)	Safe Working Pressure : 13 kg/cm2 Please see Ultrasonic Thickness Test Report No.: PV/UT/005/2024
7. Where repair affecting the Safe Working Pressure, state the Working Pressure	
a) Before the expiration of the period specified in (14)	-
b) After the expiration of such period if the required repairs have not been completed.	-
c) After completion of the required repairs	As repair not required at the time of this inspection.
8. Other Observations	NIL

I certify that on 28/02/2024 the pressure Vessel described above was thoroughly cleaned and (so far its construction permits) made accessible for thorough examination and for such tests as necessary for thorough examination and that on the said date, I/ we thoroughly examined this pressure vessel including its fitting and that the above is true report of my examinations.

Date : 28/02/2024

Signature :

Vikash

Till : 27/08/2024



VIKASH KUMAR SINGH
COMPETENT PERSON
GOVT. OF JHARKHAND
FACTORIES ACT 1948

Stamp :

Competency Licence No. : 7/COM.10 07/2017-473 dated 16/05/2023 Valid till 15/05/2024

Certificate No. : JH/CIF/7 COM.10 07/2017 by Inspectorate of Factories, Govt. of Jharkhand

Scientific & Technical Consultants on Statutory Matters of Factories & Mines, Safety Audit & Structural Stability



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ULTRASONIC TEST REPORT

Test Report No : NAT/JSR/PV/TSLKIM/005/2024

Date : 28/02/2024

Name of the Factory

: M/s. TATA STEEL LTD, (KIM)

Address of Factory

: KHONDBOND IRON ORE MINES, PRIMARY CRUSHER, TATA ST

Name of the product gauged

: AIR RECEIVER

Id No.

: SHELL PLATE

Material

: SRL.NO:- 23455

Equipment Used

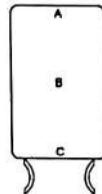
: UTM-9

Purpose

: TO FIND OUT THICKNESS AT VARIOUS PLACES

PROBES USED	FRQUENCH - 5 Mhz	SIZE - 10 MM.Q	TYPE - Double
METHOD : PULSE ECHO	COUPLANT : GREASE		
SCANNING : Refer NATecth	Basic Calibration Standard : Block sample - 4.2 mm		

RESULTS (in mm)		A	B	C
	TOP	11.7 mm	11.8 mm	11.6 mm
	FRONT	11.8 mm	11.7 mm	11.8 mm
	REAR	11.8 mm	11.8 mm	11.7 mm



Test Date: 28/02/2024

Signature :

Valid Till: 27/08/2024



VIKASH KUMAR SINGH
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FACTORIES ACT 1948

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Form No.8
 (Prescribed under Section 31 of Factory Act, 1948) (See Rule - 57)
 REPORT OF EXAMINATION OF PRESSURE VESSEL

Certificate No: NAT/JSR/PV/TSLKIM/006/2024		Date: 28/02/2024
1.	Name of the Factory and Occupier	M/s. TATA STEEL LTD, (KIM)
2.	Situation & Address of the Factory	KHONDBOND IRON ORE MINES, PRIMARY CRUSHER, TATA ST
3.	Name, Description & Identification No. of the Pressure Vessel	ITEM:- NITROGEN AIR TANK 1 CAPACITY:- 4 m3 SRL NO:- 23408 LOCATION:- Equipment section
4.	Name and Year of Manufacturer	Rednal Pneumatics Limited & 2010
5.	Nature of process in which it is used	FOR PLANT PROCESS
6.	Particulars of vessel	
	a) Year of Manufacturer	N.A
	b) Date of Commissioning in Service	N.A.
	c) Thickness of walls	12.0 mm
	d) Safe Working Pressure (as recommended by Manufacturer)	13 kg/cm2
	e) The history should be briefly given and the examiner should state whether he has seen the last/previous report	NAT/JSR/PV/TSLKIM/003/2023, Dtd:- 04-09-2023 Tested By Us.
7.	Date of last Hydro Test (if any) and Pressure applied	N.A
8.	Is the vessel is open, or otherwise exposed to weather or to damp?	N.A.
9.	What parts, if any, were inaccessible?	Safety valve & Pressure gauge.
10.	What examinations were made? (Specify Pressure if Hydraulic Test was carried out)	Thorough Physical Examination & Ultrasonic Thickness Test.
11.	Condition of the Vessel (State & Defects materially affecting the safeworking pressure or the working of the Vessel)	External : Good Internal : Inaccessible
12.	Are fittings & appliances provided in accordance with the rules for Pressure Plants? (Name fittings & appliances provided)	Pressure gauge, Safety Valve & Drain Valve.
13.	Are all fittings and appliances properly maintained and in good condition? If not the defects should be recorded	YES
14.	Repairs (if any required and period within which they should be executed and any other condition which the person making the examination thinks necessary to specify for safe working).	No major defect affecting the safe working has been observed at the time of examination.
15.	Safe Working Pressure calculated from dimensions and from thickness and other data ascertained by the present examination, due allowance being made for condition of working if unusual or exceptionally serve (state minimum thickness of walls measured during the examination)	Safe Working Pressure : 13 kg/cm2 Please see Ultrasonic Thickness Test Report No.: PV/UT/006/2024
16.	Where repair affecting the Safe Working Pressure, state the Working Pressure	-
	a) Before the expiration of the period specified in (14)	-
	b) After the expiration of such period if the required repairs have not been completed.	-
	c) After completion of the required repairs	As repair not required at the time of this inspection.
17.	Other Observations	NIL

I/We certify that on 28/02/2024 the pressure Vessel described above was thoroughly cleaned and (so far its construction permits) made accessible for thorough examination and for such tests as were necessary for thorough examination and that on the said date, I/ we thoroughly examined this pressure vessel including its fitting and that the above is true report of my examinations.

Test Date : 28/02/2024

Signature :

Valid Till : 27/08/2024



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Date : 28/02/2024

Name of the Factory

: M/s. TATA STEEL LTD, (KIM)

Address of Factory

: KHONDBOND IRON ORE MINES, PRIMARY CRUSHER, TATA ST

Name of the product gauged

: AIR RECEIVER

Id No.

: SHELL PLATE

Material

: SRL.NO:- 23408

Equipment Used

: UTM-9

Purpose

: TO FIND OUT THICKNESS AT VARIOUS PLACES

PROBES USED	FRQUENCH - 5 Mhz	SIZE - 10 MM.Q	TYPE - Double
METHOD : PULSE ECHO	COUPLANT : GREASE		
SCANNING : Refer NATecth	Basic Calibration Standard : Block sample - 4.2 mm		

RESULTS (in mm)		A	B	C
	TOP	11.9 mm	11.8 mm	11.7 mm
	FRONT	11.8 mm	11.9 mm	11.7 mm
	REAR	11.8 mm	11.7 mm	11.9 mm



Test Date: 28/02/2024

Signature :

Valid Till: 27/08/2024



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