



Think Act & Be Safe

NAT BUSINESS SOLUTIONS

Reg Office : C-1, Maa Sharda Apartment, Road No. 6, Ramnagar, Kadma, Jamshedpur - 831005
Corporate Office : Tr. Type, Road No 3, SB 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/TSL-KIM/038/2024		Date: 28/08/2024
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
3	Name, Description & Identification No. of the Pressure Vessel	Type:- NITROGEN AIR TANK-01 Capacity: 4 M3, Location :- EQUIPMENT SECTION SL No. :- 23408
4	Name and Year of Manufacturer	REDNAL PNEUMATICS LIMITED & 2010
5	Nature of process in which it is used	N.A
6	Particulars of vessel	
	p) Year of Manufacturer	N.A
	q) Date of Commissioning in Service	N.A
	r) Thickness of walls	12.0 mm
	s) Safe Working Pressure (as recommended by Manufacturer)	13 kg/cm ²
	t) The history should be briefly given and the examiner should state whether he has seen the last/previous report	NAT/JSR/PV//TSL-KIM/006/2024 DATE :- 28-02-2024
7	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 gauging test done.
11	Condition of the Vessel (State & Defects materially affecting the safe working 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 SAME 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)	Please see Ultrasonic gauging test Report No.- PV/UT/038/2024
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 REQUIRE AT THE TIME OF THIS INSPECTION
17	Other Observations	NIL

I/We certify that on 28/08/2024 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 :28/08/2024

Valid Till : 27/02/2025



Signature :

(Handwritten Signature)

Stamp :

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



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ULTRASONIC TEST REPORT

Test Report No : NAT/JSR/PV/TSL-KIM/038/2024

Date : 28/08/2024

Name of the Factory

: M/S TATA STEEL LTD (KIM)

Address of Factory

: KHONDBOND IRON ORE MINES , PRIMARY CRUSHER

Name of the product gauzed

: NITROGEN AIR TANK-01

Id No.

: SL NO:- 23408

Material

: SHELL PLATE

Equipment Used

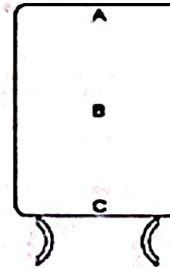
: UTM-9

Purpose

: TO FIND OUT THICKNESS AT VARIOUS PLACES.

MAKE : N.A	MODEL : N.A
PROBES USED : TR PROBE	FREQUENCY : 5Mhz.
METHOD : PULSE ECHO	SCANNING : Refer NATecth
COUPLANT : GREASE	BASIC CALIBRATION STANDARD : Block Sample - 4.2 mm

RESULTS (In mm)	A	B	C
TOP	4.9 mm	4.8 mm	4.7 mm
FRONT	4.8 mm	4.9 mm	4.7 mm
REAR	4.7 mm	4.8 mm	4.9 mm



Test Date :28/08/2024

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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
3	Name, Description & Identification No. of the Pressure Vessel	Type:- NITROGEN AIR TANK-02 Capacity: 4 M3, Location :- EQUIPMENT SECTION SL No. :- 23455
4	Name and Year of Manufacturer	REDNAL PNEUMATICS LIMITED & 2010
5	Nature of process in which it is used	N.A
6	Particulars of vessel	
	u) Year of Manufacturer	N.A
	v) Date of Commissioning in Service	N.A
	w) Thickness of walls	12.0 mm
	x) Safe Working Pressure (as recommended by Manufacturer)	13 kg/cm ²
	y) The history should be briefly given and the examiner should state whether he has seen the last/previous report	NAT/JSR/PV//TSL-KIM/005/2024 DATE :- 28-02-2024
7	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 gauging test done.
11	Condition of the Vessel (State & Defects materially affecting the safe working 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 SAME 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)	Please see Ultrasonic gauging test Report No.- PV/UT/039/2024
16	Where repair affecting the Safe Working Pressure, state the Working Pressure	
	a) Before the expiration of the period specified in (14)	-
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Date : 28/08/2024

Name of the Factory

: M/S TATA STEEL LTD (KIM)

Address of Factory

: KHONDBOND IRON ORE MINES , PRIMARY CRUSHER

Name of the product gauzed

: NITROGEN AIR TANK-02

Id No.

: SL NO:- 23455

Material

: SHELL PLATE

Equipment Used

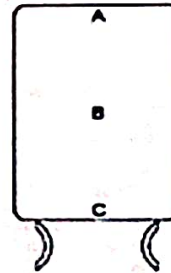
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RESULTS (In mm)	A	B	C
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FRONT	11.8 mm	11.7 mm	11.6 mm
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