

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

rt	ificate No: NAT/JSR/PV/TSLKIM/005/2024	Date: 28/02/2024
1	Name of the Factory and Occupier	M/s. TATA STEEL LTD, (KIM)
1	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 Z CAPACITY:- 4 m3 SRL.NO:- 23455 LOCATION:- Equipment section
I	Name and Year of Manufacturer	Rednal Pneumatics Limited & 2010
1	Nature of process in which it is used	FOR PLANT PROCESS
T	Particulars of vessel	
	a) Year of Manufacturer b) Date of Commissioning in Service c) Thickness of walls d) Safe Working Pressure (as recommended by Manufacturer) e) The history should be briefly given and the examiner should statewhether he has seen the last/previous report	N.A N.A. 12.0 mm 13 kg/cm2 NAT/JSR/PV/TSLKIM/002/2023, Dtd:- 04-09-2023 Tested By Us.
+	Date of last Hydro Test (if any) and Pressure applied	N.A
1	Is the vessel is open, or otherwise exposed to weather or to damp?	N.A.
7	What parts, if any, were inaccessible?	Safety valve & Pressure gauge.
).	What examinations were made? (Specify Pressure if Hydraulic Test was carried out)	Thorough Physical Examination & Ultrasonic Thickness Test.
l.	Condition of the Vessel (State & Defects materially affecting the safeworking pressure or the working of the Vessel)	External:Good Internal:Inaccessible
2.	Are fittings & appliances provided in accordance with the rules for Pressure Plants? (Name fittings & appliances provided)	Pressure gauge, Safety Valve & Drain Valve.
3.	Are all fittings and appliances properly maintained and in good condition? If not the defects should be recorded	YES
١.	Repairs (if any required and period within which they should be executed and any other condition which the person making the examination thinksnecessary to specify for safe working).	No major defect affecting the safe working has been observed at the time of examination.
5.	Safe Working Pressure calculated from dimensions and from thicknessand other data ascertained by the present examination, due allowancebeing 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
5.	Where repair affecting the Safe Working Pressure, state the WorkingPressure	
1	a) Before the expiration of the period specified in (14)	•
1	b) After the expiration of such period if the required repairs have notbeen completed.	2
7	c) After completion of the required repairs	As repair not required at the time of this inspection.
Ħ	Other Observations	NIL

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

Date: 28/02/2024

1 Till : 27/08/2024





mature:

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

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

Name of the Factory

Address of Factory

Name of the product gauzed

ld No.

Material

**Equipment Used** 

Purpose

Date: 28/02/2024
: M/s. TATA STEEL LTD, (KIM)

. Mys. MASTELL LIB, (KIN)

: KHONDBOND IRON ORE MINES, PRIMARY CRUSHER, TATA ST

: AIR RECEIVER

: SHELL PLATE

: SRL.NO:- 23455

: UTM-9

: TO FIND OUT THICKNESS AT VARIOUS PLACES

PROBES USED FRQUENCH - 5 Mhz	SIZE - 10 MM.Q	TYPE - Double
METHOD: PULSE ECHO	COUPLANT : GREASE	THE BOOKIE
SCANNING : Refer NATecth	Basic Callbration Stand	ard : Block sample - 4.2 mm

RESULTS (in mm)		A	В	С
	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:

xigh

Valid Till: 27/08/2024



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

Stamp:

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#### Form No.8

(Prescribed under Section 31 of Factory Act, 1948) (See Rule - 57) REPORT OF EXAMINATION OF PRESSURE VESSEL

	100 (D) (TELVINA (DOS /2024	Date: 28/02/2024	
erti	ficate No: NAT/JSR/PV/TSLKIM/006/2024	num Al	
	Name of the Factory and Occupier	KUONDRONDIRON ORE MINES, PRIMARY CRUSHER, TATTO	
	Situation & Address of the Factory	ITEM:- NITROGENIAIR TANK 1 CAPACITY:- 4 m3	
	Name, Description & Identification No. of the Pressure Vessel	SRI NO:- 23408	
-1		LOCATION:- Equipment section	
4		Rednal Pneumatics Limited & 2010	
	Name and Year of Manufacturer	FOR PLANT PROCESS	
. ]	Nature of process in which it is used		
	Particulars of vessel	N.A	
٦	a) Year of Manufacturer	N.A.	
1	b) Date of Commissioning in Service	12.0 mm	
1	c) Thickness of walls	13 kg/cm2 Dtd: 04-09-2023 Tested By Us.	
- 1	d) Safe Working Pressure (as recommended by Manufacturer)	13 kg/cm2 NAT/JSR/PV/TSLKIM/003/2023, Dtd:- 04-09-2023 Tested By Us.	
- 1	e) The history should be briefly given and the examiner should statewhether		
_	he has seen the last/previous report	N.A	
	Date of last Hydro Test (if any) and Pressure applied  Is the vessel is open, or otherwise exposed to weather or to damp?	N.A.	
	Is the vessel is open, or otherwise exposed to western	Safety valve & Pressure gauge.  Thorough Physical Examination & Ultrasonic Thickness Test.	
).	What parts, if any, were inaccessible? What examinations were made? (Specify Pressure if Hydraulic Test was carried	Thorough Physical Examination & Oil 93011	
IO.			
	out) Condition of the Vessel (State & Defects materially affecting the safeworking	External:Good Internal:Inaccessible	
11.	pressure or the working of the Vessel)	Pressure gauge, Safety Valve & Drain Valve.	
_	pressure or the working of the Vessell  Are fittings & appliances provided in accordance with the rules for Pressure	Pressure gaoge, solety	
12.	Plants? (Name fittings & appliances provided)	YES	
13.	Plants? (Name fittings & appliances provided)  Are all fittings and appliances properly maintained and in good condition? If	the bear observed at the tin	
13.	not the defects should be recorded	No major defect affecting the safe working has been observed at the tir	
14.	not the defects should be recorded  Repairs (if any required and period within which they should be executed and Repairs (if any required and period within which the examination thinksnecessary	of examination.	
•	any other condition which the person meaning	Safe Working Pressure: 13 kg/cm2 Please see Ultrasonic Thickness Test	
	to specify for safe working).	Report No.: PV/UT/006/2024	
15.	Safe Working Pressure calculated from dimensions and information of the control of the present examination, due allowancebeing made other data ascertained by the present examination, due allowancebeing made other data ascertained by the present examination, due allowancebeing made other data ascertained by the present examination, due allowancebeing made other data ascertained by the present examination of the present exam	Report No.: PV/01/000/	
	thickness of walls measured during the examination)		
_			
16.	where repair affecting the sale winds specified in (14)  a) Before the expiration of the period specified in (14)  a) The period if the required repairs have not been	•	
	a) Before the expiration of the period spectred in (2-9)     b) After the expiration of such period if the required repairs have notbeen	the time of this inspection.	
	es moleted	As repair not required at the time of this inspection.	
-	c) After completion of the required repairs	NIL  rits construction permits) made accessible for thoroughexamination and for such tests as every construction permits and that the above is true report of my examinations.	
17.	Other Observations The Above was thoroughly cleaned and (so fair	r its construction permits) made accessible for thoroughexaminations.	

ed and (so far its construction permits) made accessible for thoroughexamination and for suc I this pressure vessel including ots fitting and that the above is true report of my examinations. /We certify that on 28/02/2024 the pressure Vessel described above was thoroughly cleaned and vere necessary for thorough examined this proven enecessary for thorough examined this proven enecessary for thorough examined this proven enecessary for thorough examined this proven energy and the said date.

est Date : 28/02/2024

'alid Till: 27/08/2024

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### ULTRASONIC TEST REPORT

Test Report No: NAT/JSR/PV/TSLKIM/006/2024

Date: 28/02/2024

Name of the Factory

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

Address of Factory

Name of the product gauzed

: KHONDBOND IRON ORE MINES, PRIMARY CRUSHER, TATA ST

Id No.

: AIR RECEIVER

Material

: SHELL PLATE

**Equipment Used** 

: SRL.NO:- 23408

Purpose

: UTM-9

: 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 Callbration Standard : Block sample - 4.2 mm		

RESULTS (in mm)		A	В	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



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

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