### TATA STEEL LIMITED

KHONDBOND IRON MINES

Doc. No. KIM/EQPT/CN/01

Effective Date: -01.09.2023

# MONTHLY CHECKLIST FOR AIR COMPRESSOR, NITROGEN GENERATOR, VESSEL & PIPELINES

e/shift: - 10/09/2024

No: -0.02

## CHECK POINTS BEFORE START UP THE AIR COMPRESSOR

0.	Activity	Status	Remarks
	Relieve the compressor of dirt and dust.	VOK/NOT OK	cleaned.
	Check the oil level. Top up with the correct grade if required.	OK/ NOT OK	Level good.
L	Drain condensate water from air receiver through the drain valve	OK / NOT OK	Level
L	Check the compressor belt tension.	OK/NOT OK	
L	Check the insulation of electrical connections.	OK/NOT OK	Visually check
L	Check the air/oil filter condition	OK'/ NOT OK	
L	Access control (Lock out/ Tag out)	OK/NOT OK	cleaned.
L	Directional marking on valves.	OK/NOT OK	
L	Check for overload setting	OK'/ NOT OK	
	Check for any service alarms if any		No Alarms
M	CHECK POINTS AFTER START UP THE AIR CO	OK / NOT OK	NO MANMS.
	Check that the drains on the receiver is closed	VOK / NOT OK	closed
L	Open the shut off valve of the service line slightly.	OK / NOT OK	CIDSEA
	Re-inspect the machine for temperature and leaks the following day	OK / NOT OK	-
	Check for loading/unloading pressure	OK/NOT OK	working.
	Check the outlet temperature	-OK/NOTOK	Wasking.
	CHECKS DURING COMPRESSOR OPERATION		
	Check whether the compressor is running smoothly and that the running sound is normal.	OK/ NOT OK	
	The compressor delivery pipe shall be checked for abnormal colour change to ensure that their temperatures are within limits throughout the duration of operation of the compressor.	Ø¢/NOT OK	
	Observe for air leaks at the joints of the pipes and if notice, stop the compressor and rectify the defects.	Øk∕ NOT OK	No leakage.
	PERIODIC CHECKS	•	
	All guards are in place and securely fastened.	OK/NOT OK	1
	All hoses and pipes inside the compressor are good condition, secure and not rubbing against each one.	OK'/ NOT OK	
	Any leaks exits.	VOK / NOT OK	No leaks.
ı	All fasteners are tight.	OK/ NOT OK	TO TEATS.
lt	All electrical leads are secure and in good order.	OK/NOT OK	
ν	Safety valves and other pressure relief devices are not obstructed	OK/NOT OK	
	Any outlet, air filter, pipes, couplings, manifolds belt, valves, hoses etc. are in good condition.	OK'/ NOT OK	
	Check Pressure relief valve setting for Compressor & its vessel (15.5 bar).	OK/ NOT OK	
	Checking process of compressor loading- unloading setting and working.	QK/ NOT OK	

Res : 0.00

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#### KHONDBOND IRON MINES CHECKLIST OF COMPRESSOR

Shift: Greating Date: - 01 11 24 Activity SL No. Check Points before start Relieve the compressor of dirt and dust OK! NOT OK Check the oil in the crankcase / chamber. Top Up with the OK / NOT OK correct grade if required. Drain concensate water from the air receiver through the OK / NOT OK drain valve. Check the compressor belt tension. OK! NOT OK Check points initial start-up Check that the compressor rotates freely be hand and OK / NOT OK there are no mechanical obstructions. Check that the drains on the air receiver is closed. OK / NOT OK Open the shut of valve of the service line slightly. . OK / NOT OK OK! NOT OK Re-inspect the machine for temperature and leaks, the P- 8.9 Box T=260 following day. Checks during compressor operation OK / NOT OK Check whether the compressor is running smoothly and that the running sound is normal. The compressor delivery pipe shall be checked for OK / NOT OK abnormal colour change to ensure that their temperatures are within limits throughout the duration of operation of the COMPRESSO OK! NOT OK Observe for air leaks at the joints of the pipes and if noticed, stop the compressor and rectify the defects. Periodically check whether OK / NOT OK All quarts are in place and securely fastened. OK! NOT OK All hoses and pipes inside the compressor are in good condition, secure and not rubbing against each othe. OK / NOT OK Any leaks exists. 3 OK I NOT OK All fasteners are tight. OK / NOT OK All electrical leads are secure and in good order. OK / NOT OK Safety valves and other pressure relief devices are not obstructed by dirt or paint. OK / NOT OK Any outlet valve, air filter, pipes, couplings, mainflods belt, valves, hoses, etc are in good repair and free of wear and abuse.

Report (if any)

11 Nun =) 828 HOS

Signature of Sectional Incharge

Ch. Hand / Mechanic / FCO