



Ball mill motor



04-Aug-2023 at 1:45:18 PM
Lakhamapur MIDC 422202
MH
India
Dindori

Ball mill 5 tonne-1



04-Aug-2023 at 1:45:38 PM
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Ball mill 5 tonne -2



04-Aug-2023 at 1:48:07 PM
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Ball mill 5 tonne -1 and 2

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Lakhamapur MIDC 422202
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M-BM/1.5-1

Ball mill 1.5 tonne -1

BM-5

04-Aug-2023 at 1:49:59 PM
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Ball mill 1.5 tonne-2



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Ball mill 1.5 tonne motor 1



04-Aug-2023 at 1:51:09 PM
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Ball mill 1.5tonne motor 2

04-Aug-2023 at 1:53:17 PM
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SCRAP
SLURRY
STORAGE

DAAT202
G/F
M-AG-1/60-1

Agitator total-8

04-Aug-2023 at 1:54:16 PM

Lakhamapur MIDC 422202

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Agitator

04-Aug-2023 at 1:54:02 PM
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 POWER BUILD LIMITED VALLABH VIDYANAGAR-388120 GUJARAT - INDIA			
UNIT TYPE	M144250.FGCB8-----		
SR. NO.	M006525	OIL GRADE	460
INPUT KW	7.5	ASSEMBLY POSITION	V1
RATIO	250	OUTPUT RPM	5.1

Agitator description

04-Aug-2023 at 1:56:35 PM
Lakhamapur MIDC 422202
MH
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POWER BUILD LIMITED			
VALLABH VIDYANAGAR-398120			
GUJARAT - INDIA			
UNIT	WTD 0225FGCG8		
TYPE			
SERIAL	1006115	OIL GRADE	460
INPUT	2.2	ASSEMBLY	V1
POSITION			
RATIO	2.5	OUTPUT RPM	6.3

Agitator description

04-Aug-2023 at 1:59:41 PM
Lakhamapur MIDC 422202
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Blunger total-6



04-Aug-2023 at 1:59:15 PM
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Blunger





04-Aug-2023 at 2:01:13 PM
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04-Aug-2023 at 2:01:49 PM
Lakhamapur MIDC 422202
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04-Aug-2023 at 2:02:25 PM
Lakhamapur MIDC 422202
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04-Aug-2023 at 2:05:50 PM
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Pug mill-500mm-1nos

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M-PM/750-1

Pug mill 750 mm-1 no's



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Complete pug mill
500mm-750mm



04-Aug-2023 at 2:03:59 PM
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04-Aug-2023 at 2:04:51 PM
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PRATHAMESH CERAMICS PRIVATE LIMITED, NASIK

Ref. Doc. No.	WORK INSTRUCTION	Doc. No.
QMP-H503	EXTRUSION	WI-H503-05

01. PURPOSE

This document describes the production process of extrusion and also describes the prevention of excess energy consumption during Pug Milling.

02. SCOPE

This procedure describes the process of Extrusion of pugs for shaping purpose.

03. PERFORMANCE INDICATOR

Energy consumption during pug milling.

04. CROSS REFERENCE

Aspect impact register of Slip House
Pug Mill logbook

05. MAJOR EQUIPMENT ACCESSORIES (For Information only)

EQUIPMENT	ACCESSORIES
a) Rotary Feeder	a) Plat Form
b) Pug Mills 750 dia PM-1 & 500 dia PM-2	b) Lifting Truck
c) Belt Conveyor	c) Trolley
d) Vacuum Pump	d) Cutting wire
e) Electrical Hoist	e) Plastic Sheet

06. PROCESS DESCRIPTION:

After cutting the soft center the filter cakes are fed on the belt conveyor and charged into the Rotary feeder. From where the homogenous mass discharges into the pug mills. During the process, vacuum is used to remove the air packets and the resultant compact extruded column are cut by wire according to the desired size and then the pugs are stacked on the racks for transportation to PED.

07. OPERATIONAL DETAILS

7.1 PREPARATION OF PUG MILL

Ensure that the vacuum chamber is in operating condition and without any dry mass, fix the required mouthpiece, boring mandrill (for hollow) as per the drawing. Adjust the height and direction of the extrusion table.

Filter cake platforms wooden planks and plastic sheets are kept in the accessible place for extrusion.

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Ref. Doc. No.	WORK INSTRUCTION	Doc. No.
QMP-H503	EXTRUSION	WI-H503-05

7.2 RUNNING OF EQUIPMENT

After starting the process...

After cutting the soft center the filter cakes are fed on the belt conveyor and charged into the Rotary feeder. From where the homogenous mass discharges into the pug mills. During the process, vacuum is used to remove the air pockets and the pug is compacted. The pugs are cut by wire according to the desired size and the pugs are stacked on the racks for transportation to PED.

07. OPERATIONAL DETAILS

7.1 PREPARATION OF PUG MILL

Ensure that the vacuum chamber is in operating condition and without any dry mass, fix the required mouthpiece, boring mandrill (for hollow) as per the drawing. Adjust the height and direction of the extrusion table.

Filter cake platforms wooden planks and plastic sheets are kept in the accessible place for extrusion.

PRATHAMESH CERAMICS PRIVATE LIMITED, NASIK

Ref. Doc. No.	WORK INSTRUCTION	Doc.No. /
QMP-H503	EXTRUSION	WI-H503-05

7.2 RUNNING OF EQUIPMENT

After starting the rotary feeder and vacuum is built up charge the filter cakes or pre pugged mass on the basis of first come first serve basis. Soft center has to be cut from the filter cakes before feeding.

Vacuum pump has to be checked frequently for its operation and the extruded pugs are to be cut out by piano wire, cut a thin slice and check for air pockets, after ensuring no air pocket pugs are extruded for production by cutting in length as per shaping plan. Then the pugs are stacked on racks. Then cover it with polythene sheet after 4 hours (approximately).

The pugs are to be given identification mark for pugs extrusion direction, date, and serial number both the ends have to be chamfered. Samples are to be collected and sent to Lab for testing moisture content.

08. CONTROL AND MONITORING OF PROCESS PARAMETER

SR. NO.	PROCESS PARAMETER	RANGE TO BE MAINTAINED	MONITORING FREQUENCY
1)	VACUUM DROP		
a)	For 750 pug mills	10 mbar/10mm Hg in 15 min.	Initially in every shift.
b)	For 500 pug mills	10 mbar/10mm Hg in 15 min.	-do-
2)	EXTRUSION RATE		
a)	For 750 pug mills	Min. 130 kg/min.	Initially and once the middle of shift.
b)	For 500 pugs	Min. 70 kg/min.	-do-
3)	Moisture in pugs	18.7.0%±0.8%	One sample per two racks.

8.1 The above referred parameters and running condition are also verified and cross checked by quality controls personnel twice in each shift. Daily Report with comments (if any) are sent to the Sectional Head in F:H201-51.

09. GUIDELINES FOR PROCESS ADJUSTMENT

Rate of extrusion is adjusted by the operators based on experience & skill by controlling the input to pug mill.

10. CONNECTED DOCUMENTS: Shaping Programme.

Rate of extrusion is adjusted by the operators based on experience & skill by controlling the input to pug mill.

10. CONNECTED DOCUMENTS: Shri PA 2023 at 2:05:01 PM
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PRATHAMESH CERAMICS PRIVATE LIMITED, NASIK

Ref. Doc. No.	WORK INSTRUCTION	Doc.No.
QMP-H503	EXTRUSION	WI-H503-05

12. ENVIRONMENTAL CONDITION:

Sr.No	Activities	Responsibility
1	The HOD of Slip House and shift incharge will study the possibility of energy saving keeping in mind the motor power of pug mill vis-à-vis actual power consumption.	HOD/ Slip House Shift Incharge
2	Maintain the cooling of motors/other accessories	HOD SH & HOD Elect.
3	Check the condition after preventive maintenance and ensure schedule	Shift Incharge
4	Plot monthly energy consumption vs production graphically.	HOD/ Elect.
5	Control of vacuum drop, extrusion speed, material feeding etc.	Shift Incharge
6	Deformed/ bend wooden plank should not be used for pugs.	Shift Incharge
7	Control of improper compaction of pugs during pugging by optimization of cake speed, noodle hole blocking, extrusion speed etc.	Shift Incharge

13. RESPONSIBILITIES :

SR. NO.	ACTIVITIES	RESPONSIBILITIES
a)	Vacuum drop checking	Operator
b)	Rotating sieve checking	Section Head
c)	Pug Covering	Foreman/Shift Incharge
d)	Soft centre cutting	Operator
e)	Overall Supervision	Dept. Head

14. CHECKING, CORRECTIVE AND PREVENTIVE ACTION :

The HOD Slip House shall be responsible for overall implementation of the above procedure. In case of any deviation, he shall take necessary corrective and preventive action.

15. QUALITY RECORDS :

SR. NO.	RECORD	FORMAT NO.	RESPONSIBILITY	RETENTION TIME
a)	Pug Mill Production Information	F: H503-06	Shift In charge	1 Year
b)	Test Report for Moisture content-Pug Mill.	F: H503-07	Foreman/Shift In charge	3 Months
c)	Slip house process control checklist	F: 1201-51	QC Inspector	3 Months
d)	Pugged mass/ Agglomerate iron particle and impurities	F: 1201-24	Head / Slip House Lab Assistant	3 Months

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Lakhamapur MIDC 422202
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neptune Industries Limited	
NAME OF MACHINE	500 PUG MILL
CAPACITY	300 mm
MODEL	VINE 1000 1007
SR.NO.	102/03 10/06
POWER	10 H.P. 3 PHASE, 440 VOLTS
296/297, G.I.D.C. Estate, Phase-II, Modhera Road, Dediasan, MEHSANA-384004 (Guj.) E-mail: info@neptune-india.com Phone: +91-2762-224551/224331, Fax: +91-2762-252070	

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Lakhamapur MIDC 422202
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M-RF-1

Rotary feeder total 1

04-Aug-2023 at 2:07:16 PM

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04-Aug-2023 at 2:08:45 PM
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CYCLE NO.

137/01

DATE OF START

19/11/2013

DATE OF END

15-01

TOTAL QTY.

15.77 T

M-DC-01

DRYER
NO. 1

13-27



GOI-732877

CYCLE NO.	143/102
DATE OF START	under
DATE OF END	unloading
TOTAL QTY.	143/102

3-8

M-DC-02

CYCLE NO.

135/03

DATE OF START

under

DATE OF END

unloading

TOTAL QTY.

M-DC-03

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CYCLE NO.

Ind

DATE OF START

under

DATE OF END

unloading

TOTAL QTY.

M-DC-04

CYCLE NO.

.....MFI
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Dindor

DATE OF START

.....

DATE OF END

.....

TOTAL QTY.

.....

M/C NOT IN USE

M-DC-05

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Lakhanpur MIDC 422202

DRYER NO. 6

MH
India
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CYCLE NO.

DATE OF START

DATE OF END

TOTAL QTY.

M/C NOT IN USE

M-D C-06

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Cnc turning and boring
machine

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Cnc machine description



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High speed Blunger-5nos

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2 high speed Blunger only
foundation done not installed

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Shaping lathe machine total
-3 no's

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Electric dryer - 6 rooms



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India
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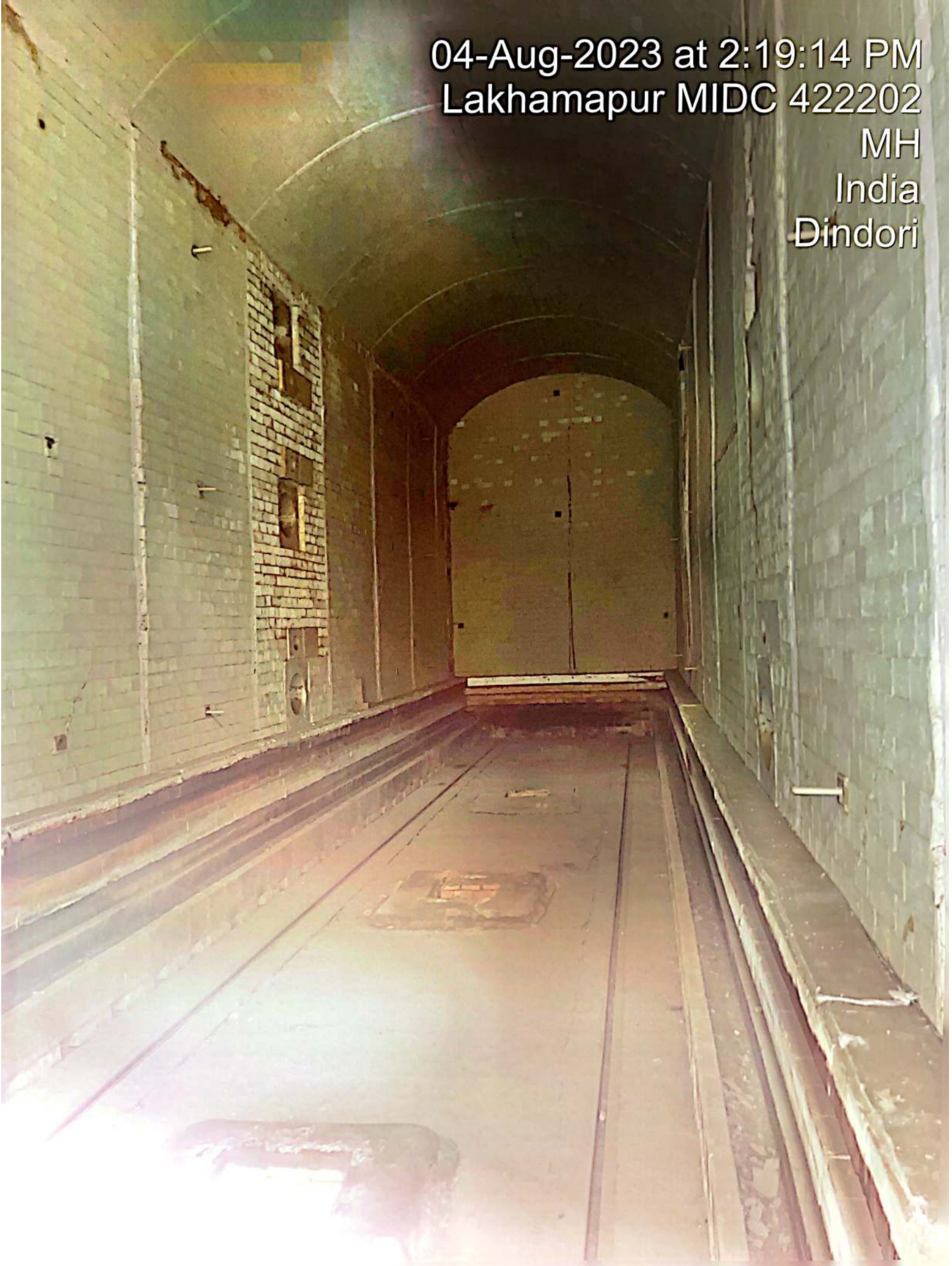


A photograph of a large industrial kiln in a factory setting. The kiln is a long, arched structure with a metal frame. To the left, there is a sign with text in Hindi and English, and a red fire extinguisher. To the right, there is a control panel labeled 'E-TR-01'. The floor is concrete with metal tracks. The background shows the interior of a large industrial building with a high ceiling and structural beams.

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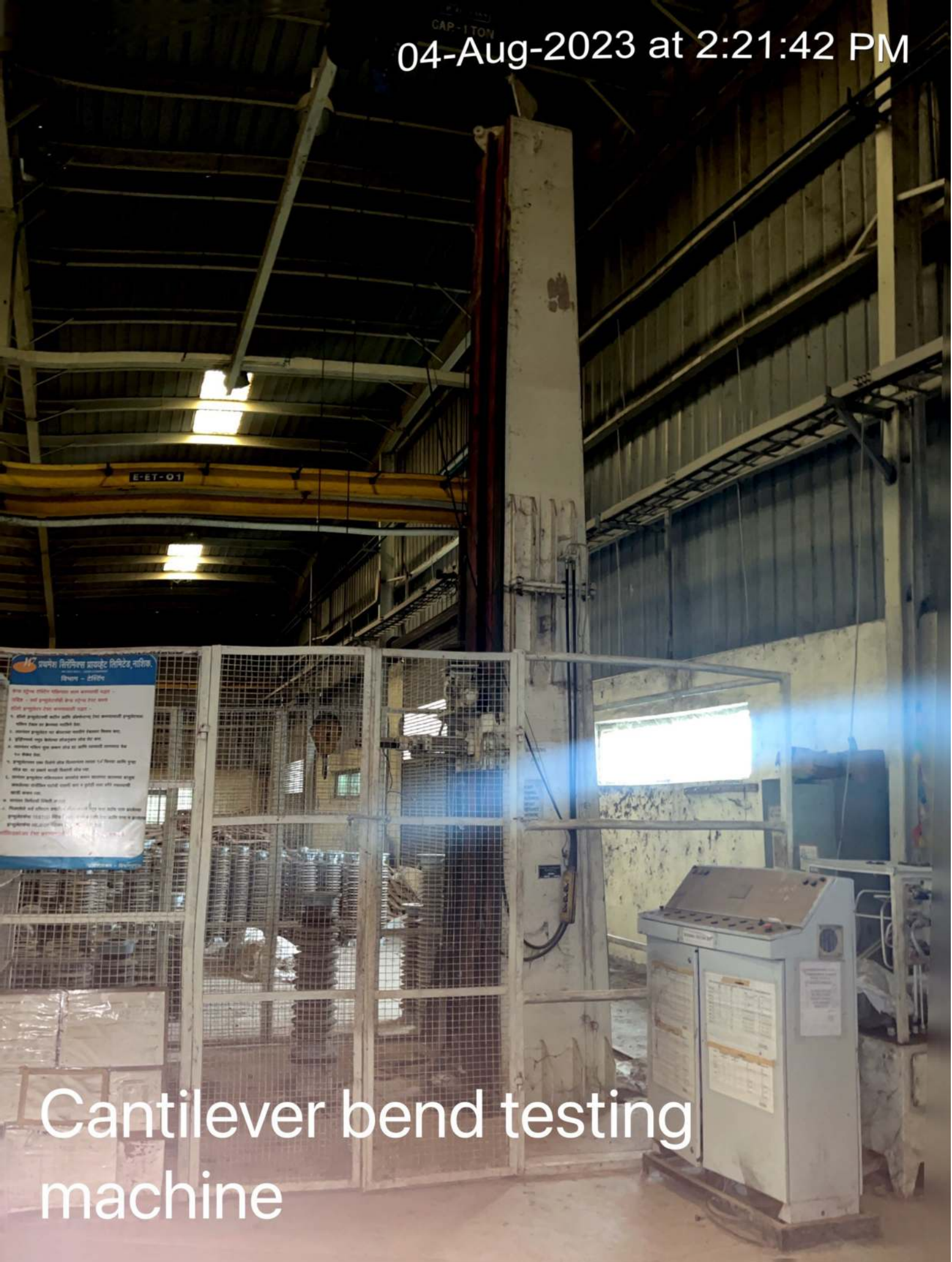
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Kiln no-2

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Cantilever bend testing machine

SOUND COMES,
CONTACT
MAINTENANCE
DEPARTMENT
IMMEDIATELY.

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Water pressure testing
machine

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Overhead cranes 3T-2nos
2T-1nos





Scanned with CamScanner

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UTM

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Crack detection system-2
no's

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Tensile machine

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PRATHAMESH CERAMICS PRIVATE LIMITED, NASIK

Ref.Doc.No.	TEST PROCEDURES	Doc.No.
SUPPLIER INSTRUMENT MANUAL	DYE PENETRATION TEST (FLAW TEST)	TP-03-03

1.0 PURPOSE :-

This document describes the procedure for Testing Porcelain Hollow insulators for crack in surface of insulators by dye penetration test (Flaw test).

2.0 SCOPE :-

- 2.1 This procedure includes only Hollow porcelain insulators.
- 2.2 Includes testing of Hollow Insulators shell and after assembly.

3.0 APPARATUS :-

Cleaner SC-30, Penetrant SC-10, Developer SC-20

4.0 PROCEDURE :-

- 4.1 Clean material with cleaner SC-30 to remove oil, grease and allow to dry.
- 4.2 Then penetrant SC-10 is sprayed over entire surface.
- 4.3 After penetration time, excess of penetrant is removed by swabbing with a cloth soaked in cleaner SC-30
- 4.4 Take care "penetrant from defect is not removed" Spray Developer SC-20 allow to dry.
- 4.5 Because of whiteness Developer SC-20 gives maximum contrast to red indication of defect.

5.0 PRECAUTION :-

- 5.1 Avoid spraying towards open flame.
- 5.2 Contents under pressure. Do not puncture or incinerate.
- 5.3 Do not store above temp. of 55°C.
- 5.4 Do not take internally, for industrial use only.

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M-TENSILE-01





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H V Divide

or. No. 8596 / (129 P) / 29-10

ID No. HVT-01 / DVR-01



ERDA CALIBRATION SERVICES

(PLEASE SEE CERTIFICATE)

Nomenclature :

Sl. No :

Model No. :

Cert. No.

Cal. On : Rec. Due Date :

Signature :

CAL. STATUS

Mfg. Spec.

User Spec.

Full Cal.

Partial Cal.

Within Cal.

Out of
Spec.

Use cal.
Value

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RE



RE SINCE 1970	A.C. High Voltage	
	Paral	
	IN	OUTPUT
VOLTS	415	300 KV
AMPS	375	500 mA
PHASES	2-Ph	—
FREQ.	50 H-Z	—
CAPACITY	— 150 KVA	
COOLING	A-H	DUTY Test
QTY. OIL	—	YEAR 3-4
SR.NO.	858576 (12/11/11)	
Rectifiers & Electronics		
10/3, DLF INDUSTRIAL AREA, MOTI NAGAR, NEW DELHI-15		
Ph : 2-546-8588, 2-543-4772, Fax : +91-11-2-543-8460		
E-mail : info@re-india.com • Website : www.re-india.com		
AN ISO 9001 : 2000 COMPANY		

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RE

SINCE 1970

Reactor

INPUT

OUTPUT

VOLTS

415

415

AMPS

375

PHASES

2 PH

FREQ.

50 Hz

CAPACITY

150 KVA

COOLING

W/L

DUTY

TESTING

QTY. OIL

400 LTR

YEAR

03/2010

SR.NO.

8574 (GTP) 09/10

Rectifiers & Electronics

10/3, DLF INDUSTRIAL AREA, MOTI NAGAR, NEW DELHI-15

Ph : 2-546-8588, 2-543-4772, Fax : +91-11-2-543-8460

E-mail : info@re-india.com • Website : www.re-india.com

AN ISO 9001 : 2000 COMPANY



RE

SINCE 1970

VARJ-AC - Auto

TN

	INPUT	OUTPUT
VOLTS	415	15
AMPS	100 amp	375
PHASES	3 Ph.	
FREQ.	50 Hz	
CAPACITY		
COOLING	ON	DUTY 100%
QTY. OIL	1000 L	YEAR 5-2012
SR.No.	8270 (12/1) 01-10	

Rectifiers & Electronics

10/3, DLF INDUSTRIAL AREA, MOTI NAGAR, NEW DELHI-15

Ph : 2-546-8588, 2-543-4772, Fax : +91-11-2-543-8460

E-mail : info@re-india.com • Website : www.re-india.com

AN ISO 9001 : 2000 COMPANY

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Final product

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DG set 500KW - 2 no's

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STING

CHAMBER FURNACE
M-CF-01



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VICAT APPARATUS







M-LDS-01

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LHT DUTY S
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WEIGHING SCALE



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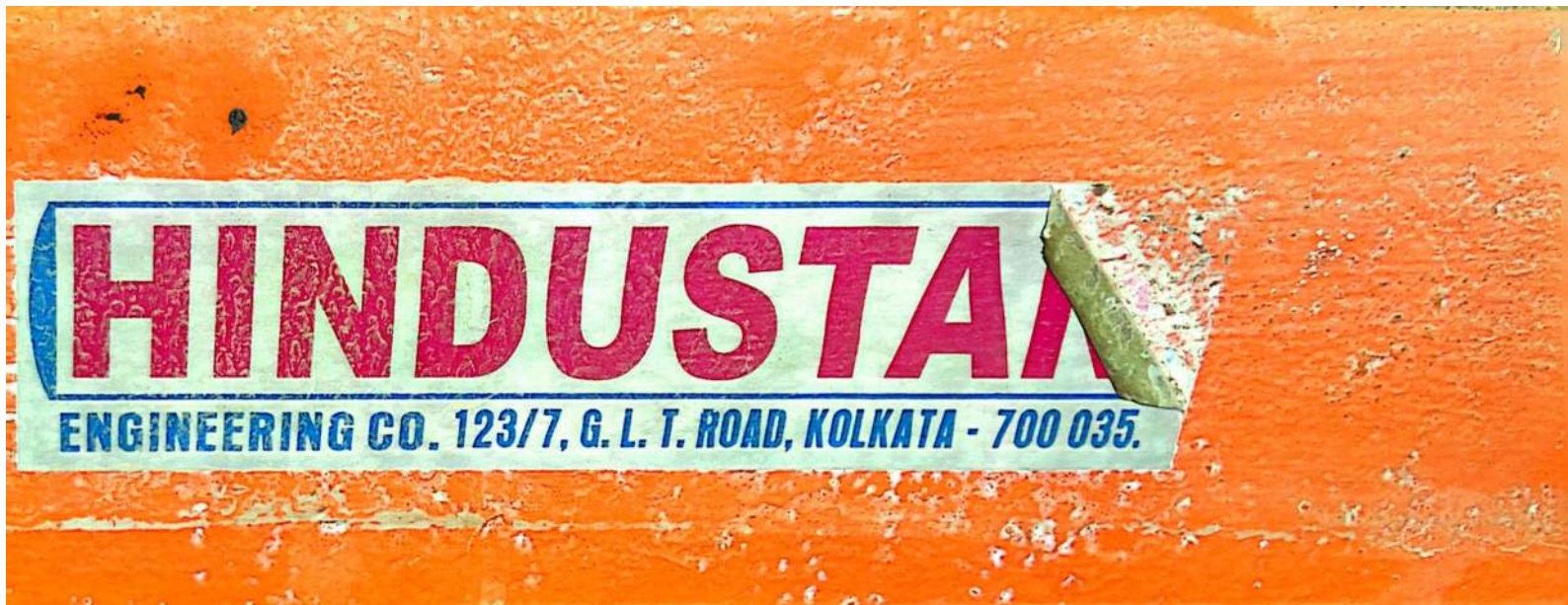
FILTER PRESS
M-FP-7

PUG MILL
M-PM-50



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Nashik 422202

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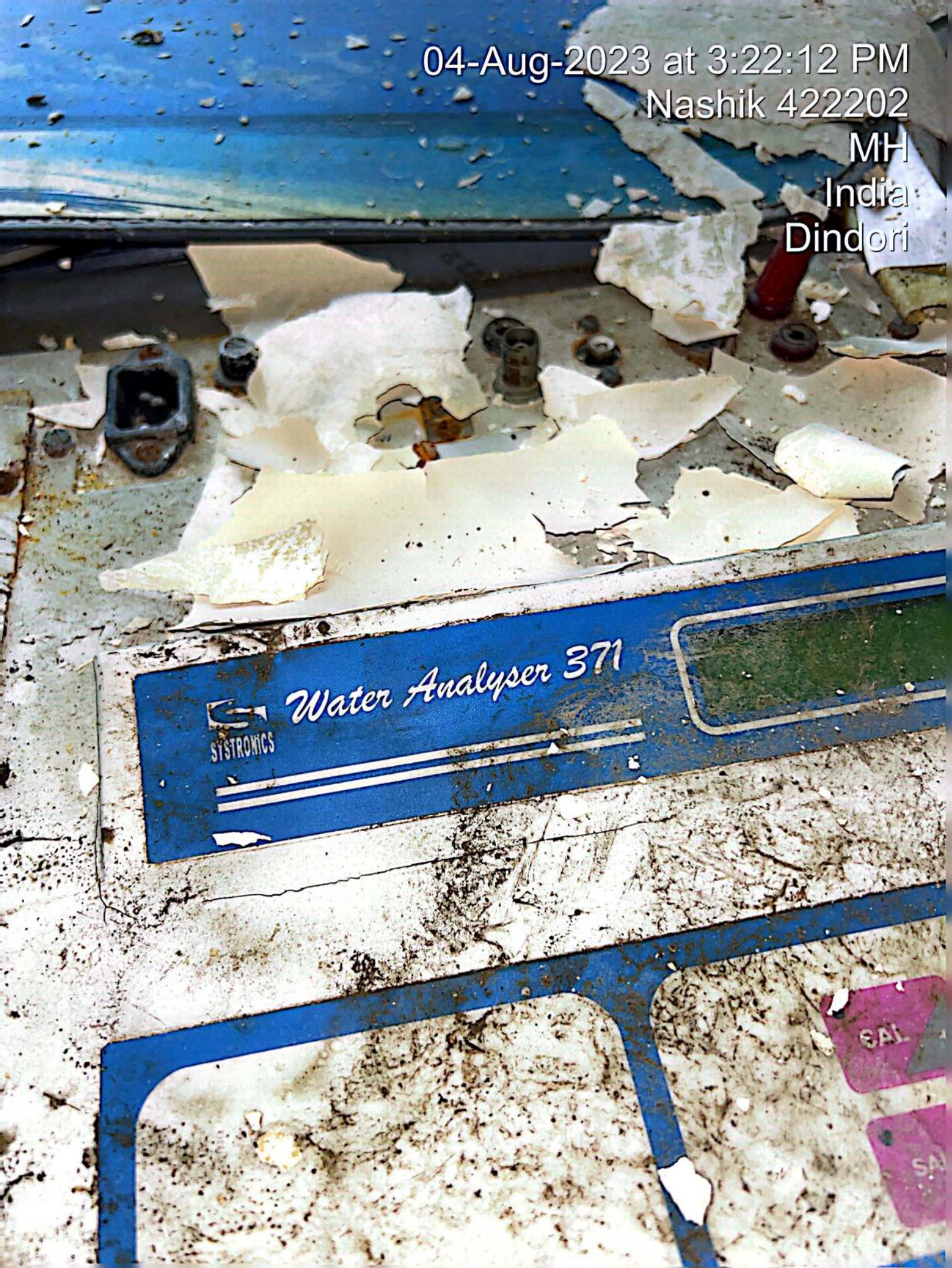
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Nashik 422202

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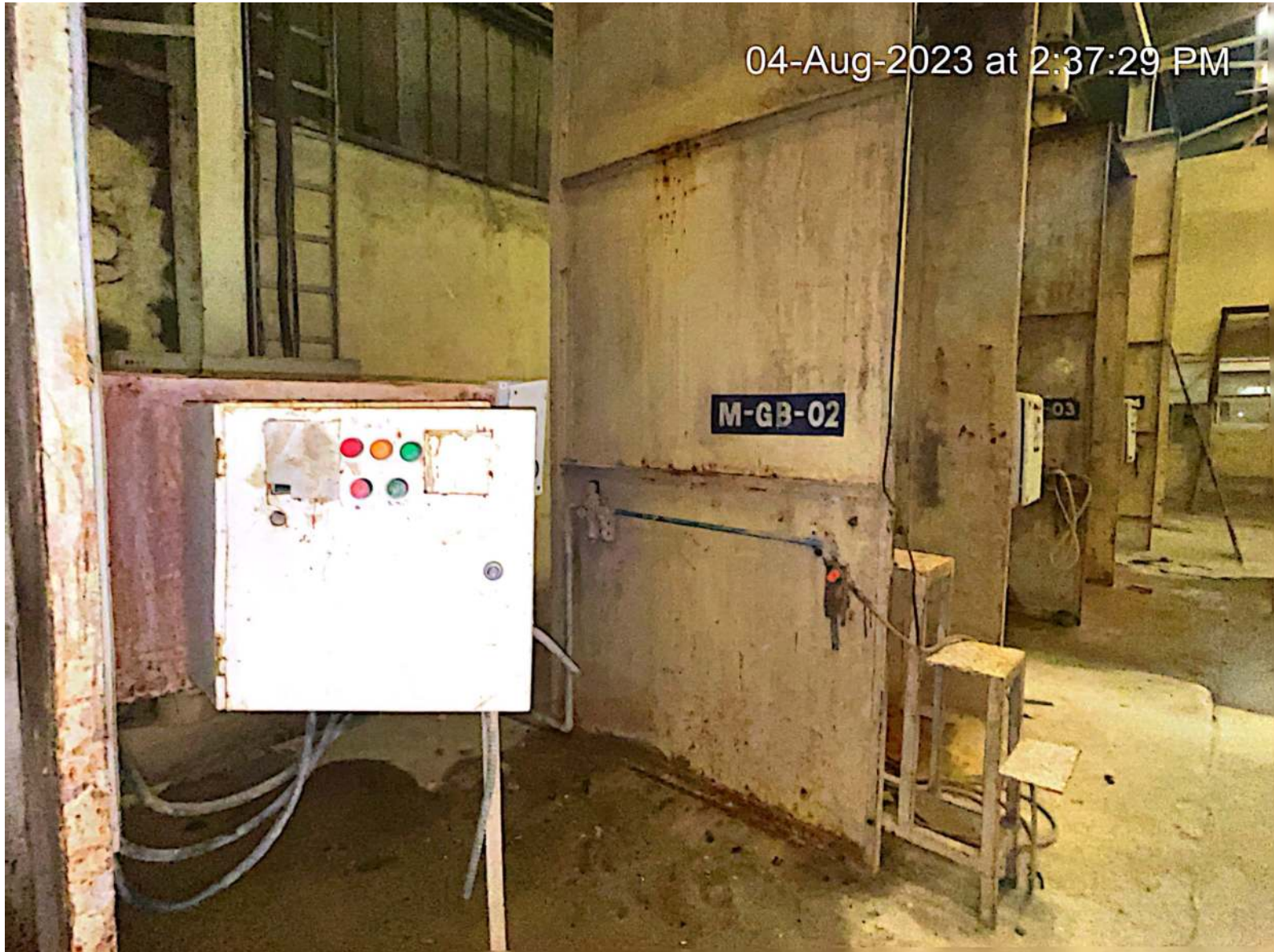


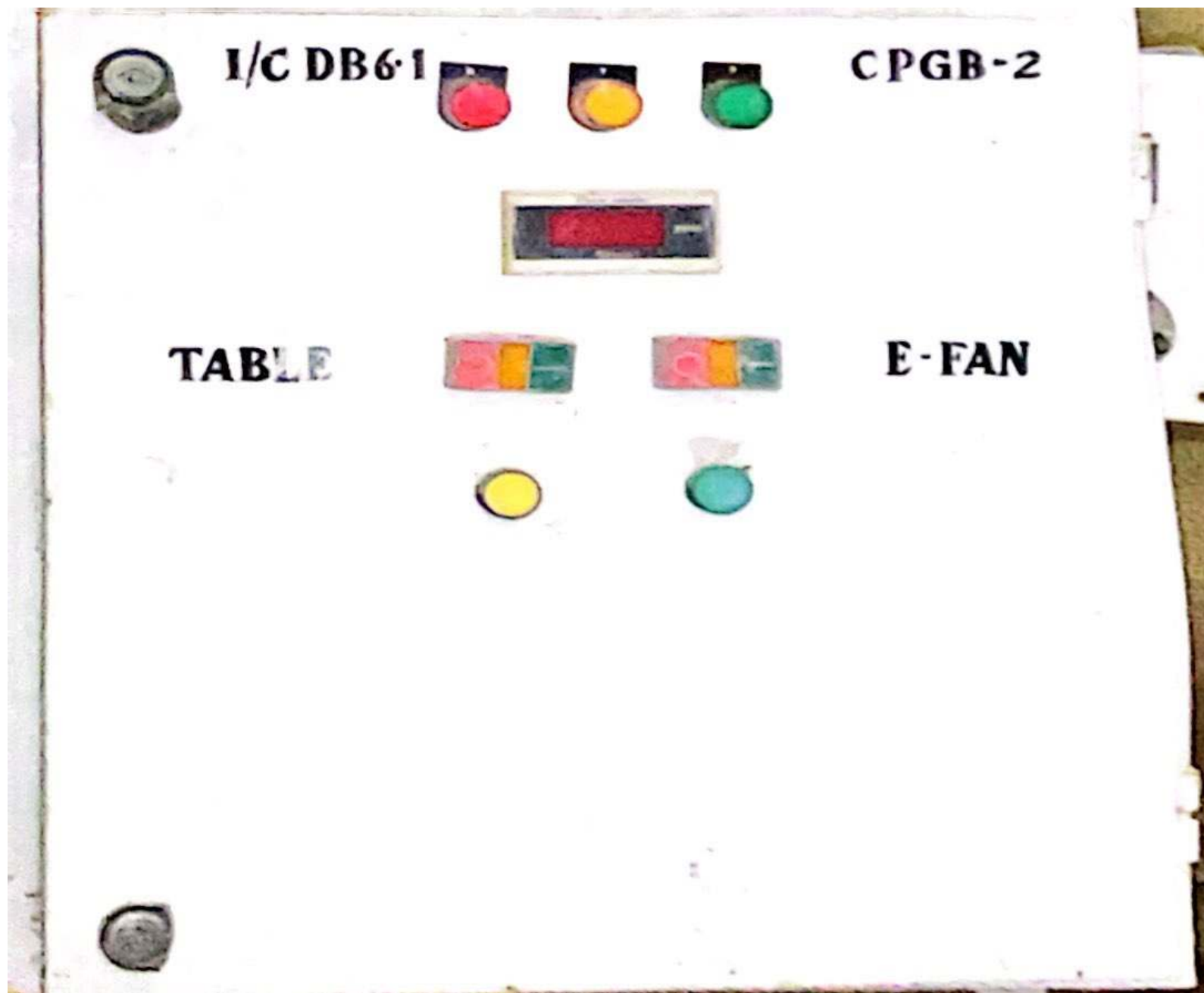
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Cancel





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04-Aug-2023 at 2:45:02 PM
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AIR COMPRESSOR - PM CHECK LIST (GA 75+)

PERIOD	OPERATION
DAILY	CHECK OIL LEVEL
	CHECK READINGS ON DISPLAY
	CHECK AIR FILTER SERVICE INDICATOR
	ON WATER COOLED UNITS: CHECK FOR COOLING WATER FLOW
3 MONTH	CHECK COOLERS, CLEAN IF NECESSARY
	CHECK CONDENSOR OF DRYER AND CLEAN IF NECESSARY
	REMOVE AIR FILTER ELEMENT, CLEAN USING AN AIR JET AND INSPECT MORE FREQUENTLY WHEN OPERATING IN A DUSTY ATMOSPHERE
	REPLACE DAMAGED OR HEAVILY CONTAMINATED ELEMENTS
	CHECK THAT CONDENSATE IS DISCHARGED WHEN PRESSING THE TEST BUTTON ON TOP OF THE ELECTRONIC WATER DRAINS

PREPARED BY

SACHIN PAGARE
ENGG.

CHECKED BY

MR.B.PAWAR
HOD

AUTHORISED BY

MR.B.SINGH
DGM

AIR COMPRESSOR - GA 75+

RUNNING HRS.	SERVICE PLAN	OPERATION	DATE	REMARK
2000		IF ATLAS COPCO FOOD GRADE FLUID IS USED, CHANGE OIL & OIL FILTER		
4000	A	IF ATLAS COPCO ROTO INJECT FLUID IS USED, CHANGE OIL & OIL FILTER		
4000		IF ATLAS COPCO SYNTHETIC PAO FLUID FOR MEMBRANCE APPLICATION IS USED, CHANGE OIL & OIL FILTER		
4000	B	REPLACE AIR FILTER ELEMENT		
4000	B	CHECK PRESSURE & TEMP. READINGS		
4000	B	CARRY OUT AN LED/DISPLAY TEST		
4000	B	CHECK FOR POSSIBLE AIR OR OIL LEAKAGE		
4000	B	ON WATER COOLED UNITS, CHECK FOR POSSIBLE WATER LEAKAGE		
4000	B	CLEAN COOLERS		
4000	B	CLEAN CONDENSER OF DRYER		
4000	B	TEST TEMP. SHUT DOWN FUNCTION		
4000	B	TEST SAFETY VALVES		
8000	C	IF ATLAS COPCO HD ROTO-FLUID PLUS IS USED, CHANGE OIL & OIL FILTER		
8000	C	REPLACE SEPARATOR OR WHEN THE PRESSURE DROP OVER THE SEPARATOR EXCEEDS 3 BAR (24.5 PSI) CHECK THE PRESSURE DROP WHEN THE COMPRESSOR IS RUNNING LOADED & PREFERABLY WITH A STABLE WORKING PRESSURE		
12000		IF ATLAS COPCO ROTO-EXTREME DUTY FLUID IS USED, CHANGE OIL & OIL FILTER		

PREPARED BY

SACHIN PAGARE
ENGG.

CHECKED BY

MR.B.PAWAR
HOD

AUTHORISED BY

MR.B.SINGH
DGM

AIR COMPRESSOR - GA 75+

RUNNING HRS.	SERVICE PLAN	OPERATION	DATE	REMARK
2000	..	IF ATLAS COPCO FOOD GRADE FLUID IS USED, CHANGE OIL & OIL FILTER.		
4000	A	IF ATLAS COPCO ROTO INJECT FLUID IS USED, CHANGE OIL & OIL FILTER.		
4000	..	IF ATLAS COPCO SYNTHETIC PAO FLUID FOR MEMBRANCE APPLICATION IS USED, CHANGE OIL & OIL FILTER.		
4000	B	REPLACE AIR FILTER ELEMENT.		
4000	B	CHECK PRESSURE & TEMP. READINGS.		
4000	B	CARRY OUT AN LED/DISPLAY TEST.		
4000	B	CHECK FOR POSSIBLE AIR OR OIL LEAKAGE.		
4000	B	ON WATER COOLED UNITS: CHEK FOR POSSIBLE WATER LEAKAGE.		
4000	B	CLEAN COOLERS.		
4000	B	CLEAN CONDENSER OF DRYER.		
4000	B	TEST TEMP. SHUT DOWN FUNCTION.		
4000	B	TEST SAFETY VALVES.		
8000	C	IF ATLAS COPCO HD ROTO-FLUID PLUS IS USED, CHANGE OIL & OIL FILTER.		
8000	C	REPLACE SEPARATOR. OR WHEN THE PRESSURE DROP OVER THE SEPARATOR EXCEEDS 1 BAR (14.5 PSI) CHECK THE PESSURE DROP WHEN THE COMPRESSOR IS RUNNING LOADED &PREFERABLY WITH A STABLE WORKING PRESSURE.		
12000	..	IF ATLAS COPCO ROTO-EXTREME DUTY FLUID USED, CHANGE OIL & OIL FILTER.		

PREPARED BY
S. S. S. S. S.

CHECKED BY
HOD-MMU

AUTHORIZED BY
DGM

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Dindori



REFRIGERATION DRYER

Model : ASH-500	SL.No. TRD/003348
Capacity : 500 cfm	Power : 2.40 KW
MWP : 16 Kg/cm²	Electrical : 415v, 50 Hz, / 3 Ph
Endconnections : 1/2" /NB	Refrigerant : R-22



TRIDENT

TRIDENT PNEUMATICS PVT LIMITED

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COIMBATORE - 641 108. INDIA

Ph : +91 422 2400492, website : www.tridentpneumatics.com

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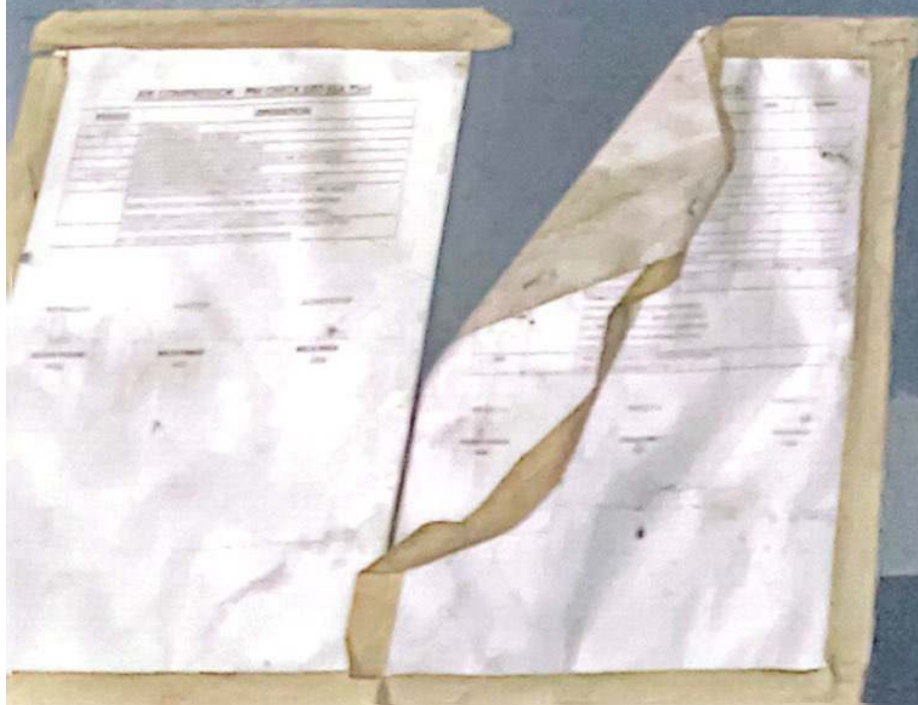
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AIR RECEIVER

ACILP PART NO.

UEW V 2 10

JOB SR. NO.

R090920 01

CAP./VOLUME

2 0 Cu. Mtr.

DATE OF TEST

15 09 2009

MAX. WORK PR.

10 0 Kg/Cm²g

WORK TEMP.

60 Deg. C

DESIGN PR.

11 0 Kg/Cm²g

DESIGN TEMP.

100 Deg. C

HYD. TEST PR

16 5 Kg/Cm²g

MFG. YEAR

09 2009

VENDOR CODE

UNITED ENGINEERING WORKS

E-48/49, MIDC, SATPUR, NASHIK-7 MAHARASHTRA
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E-mail : ranjeet@unitedengg.com

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® Lakhamapur MIDC 422202

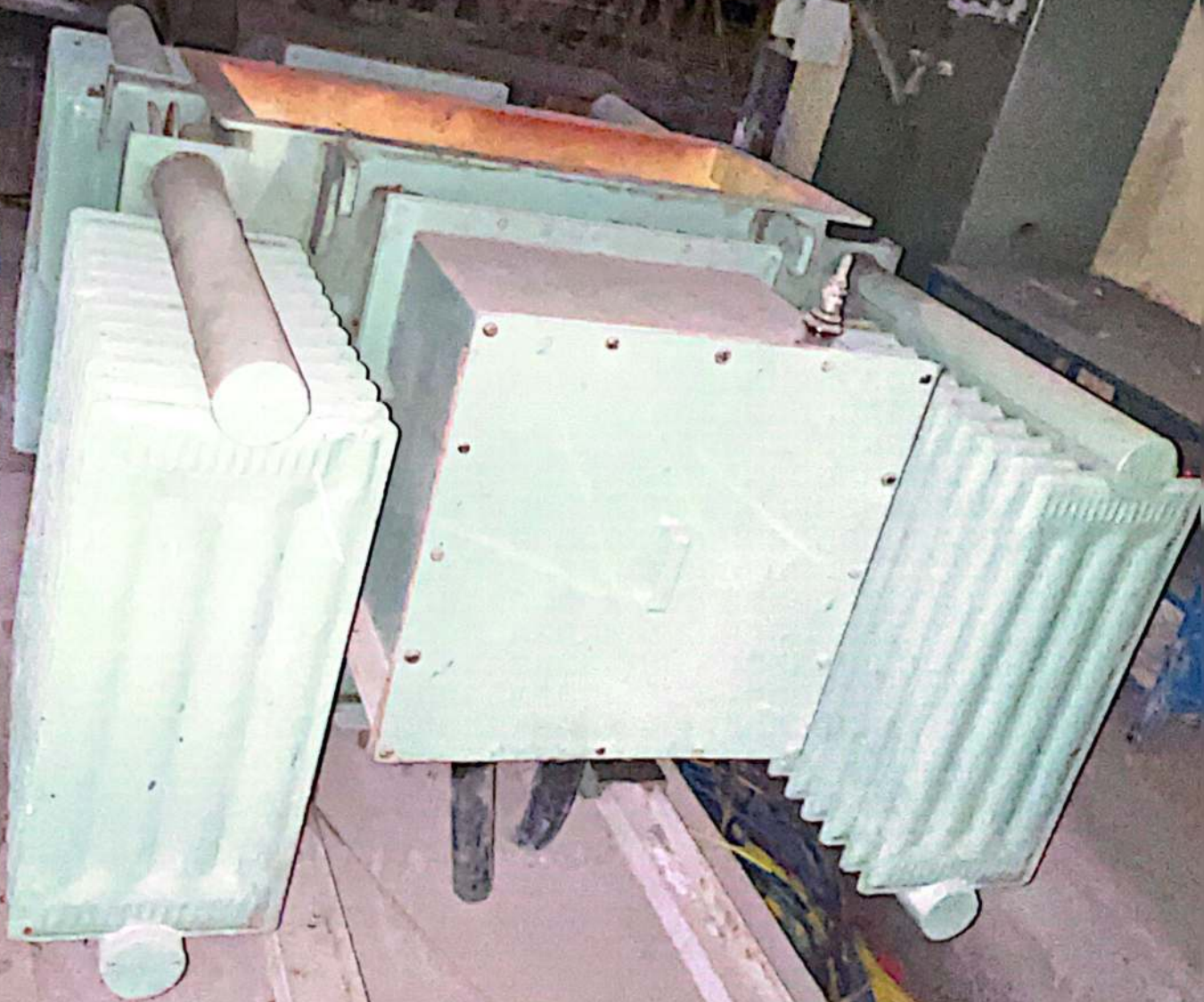
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