



# GADARK LAB PVT. LTD.

INDUSTRIAL ANALYSTS & CONSULTANTS

LAB.: H-54, Additional M.I.D.C. Kudal, Taluka - Kudal, District - Sindhudurg - 416 525.  
Tel. : (02362) 223519 • E-mail : info@gadark.in • Website : www.gadark.in

OFF.: 15, Hindustan Kohinoor Industrial Complex, L.B.S. Marg, Vikhroli (West), Mumbai - 83.  
Tel.: (022) 2577 7069 / 2577 7070 / 2085 0091 • +91 93213 12367

## TEST REPORT

Doc.No : GLPL/QF/7.8/02

Test Report No.	GA/23/07/62	Test Report Date	10/07/2023
Customer Name and Address	M/S. MANOJ INDUSTRIES PLOT NO. 30, MIDC, SHIROLI, KOLHAPUR - 416 122.		
Letter Ref / Date	---	Page No.	1 of 1
Sampling Done By	GLPL	Sample Received on	07/07/2023
Sampling Plan	GLPL/QF/7.3/06	Analysis Period	08/07/2023 To 10/07/2023

### SAMPLING DETAILS - STACK EMISSION

Stack Attached to	FURNACE
Stack Dimension [mm]	584.2
Date of Sample collection	07/07/2023
Time of Sampling [Hrs.]	10:35
Temperature of flue gas [°C]	42
Average flue gas velocity [m/s]	4.0
Average volume of flue gas discharged [Nm <sup>3</sup> /hr]	3652

### ANALYSIS REPORT :

Parameters	Units	Results	Sampling & Analysis Methods
TPM / SPM	mg/Nm <sup>3</sup>	24.6	IS 11255 (Part I) 1985
Sulphur Dioxide	mg/Nm <sup>3</sup>	73.2	IS 11255 (Part II) 1985
	Kg/day	6.42	
NOx	mg/Nm <sup>3</sup>	27.1	IS 11255 (Part VII) 2005

End

For GADARK LAB PVT. LTD.

AUTHORISED SIGNATORY  
[SACHIN B. GAONKAR]



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#### Note :

1. The results relate only to the samples tested.
2. Test Report shall not be reproduced except in full, without written approval of the laboratory.
3. Samples will be preserved for a period 15 days from the delivery of Test Report.
4. Test Results relate only to the conditions prevailing at the time of sampling.
5. Customer complaint register is available at laboratory.

Recognised by Ministry of Environment, Forest and CC, Government of India, vide Gazette Notification No. 3221, dated 24th August 2021, valid upto 15th October 2023. ISO 9001 : 2015 Certified & ISO 45001 : 2018 Certified.



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## TEST REPORT

Doc.No : GLPL/QF/5.10/01

Test Report No.	GA/23/07/63	Test Report Date	10/07/2023
Customer Name and Address	M/S. MANOJ INDUSTRIES PLOT NO. 30, MIDC, SHIROLI, KOLHAPUR - 416 122.		
Letter Ref / Date	---	Page No.	1 of 1
Sampling Done By	GLPL	Sample Received on	07/07/2023
Sampling Plan	GLPL/QF/7.3/06	Analysis Period	08/07/2023 To 10/07/2023

### SAMPLING DETAILS - AMBIENT AIR MONITORING :-

Sampling Location	Near Main Gate	Near Heat Treatment Area
Date of Sampling	06/07/2023	06/07/2023
Time of Sampling [Hrs]	14:15	14:30
Duration of Sampling [Hrs]	8	8
Ambient Temperature [°C]	Min. 28	Max. 30
Relative Humidity [%]	Min. 38	Max. 68

### ANALYSIS REPORT :-

Parameters	Unit	Near Main Gate	Near Heat Treatment Area	N.A.A.Q.S.	Sampling & Analysis Methods
PM <sub>10</sub>	µg/m <sup>3</sup>	44.1	41.8	100.0	IS 5182 (Part XXIII) 2006
SO <sub>2</sub>	µg/m <sup>3</sup>	18.7	28.0	80.0	IS 5182 (Part II) 2001
NO <sub>2</sub>	µg/m <sup>3</sup>	24.8	23.4	80.0	IS 5182 (Part VI) 2006

N.A.A.Q.S. - National Ambient Air Quality Standards

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### TEST REPORT

Doc.No : GLPL/QF/7.8/04

Test Report No.	GA/23/07/64	Test Report Date	10/07/2023
Customer Name and Address	M/S. MANOJ INDUSTRIES PLOT NO. 30, MIDC, SHIROLI, KOLHAPUR - 416 122.		
Letter Ref / Date	---	Page No.	1 of 1
Sampling Plan	GLPL/QF/7.3/06	Measurement Done By	GLPL

#### AMBIENT NOISE LEVEL MEASUREMENT :

Date of Measurement	06/07/2023
Test Method	IS 9989 Year 1981

Sr. No.	LOCATION	NOISE LEVEL dB (A)	
		DAY TIME 14:30 HRS.	NIGHT TIME 22:10 HRS.
01	Near Main Gate	73.2	69.3
02	Near Heat Treatment Area	74.6	68.9
M.P.C.B. LIMITS		75.0	70.0

End

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## TEST REPORT

Doc.No : GLPL/QF/7.8/04

Test Report No.	GA/23/07/65	Test Report Date	10/07/2023
Customer Name and Address	M/S. MANOJ INDUSTRIES PLOT NO. 30, MIDC, SHIROLI, KOLHAPUR - 416 122.		
Letter Ref / Date	---	Page No.	1 of 1
Sampling Plan	GLPL/QF/7.3/06	Measurement Done By	GLPL

### INPLANT NOISE LEVEL MEASUREMENT :-

Date of Measurement	06/07/2023
Test Method	IS / ISO 8528 (Part X) 1998

Sr. No.	LOCATION	NOISE LEVEL dB (A)	
		DAY TIME 15:15 HRS.	NIGHT TIME 22:30 HRS.
01	Machine Shop	88.1	87.5
02	Heat Process Area	87.9	85.4
As per The Factories Act, 1948 with The Maharashtra Factories Rules, 1963		90.0	

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## TEST REPORT

No. GLH/W/0723/23

Date: 14/07/2023

### WORK AREA MONITORING REPORT

Name of Company : M/S. MANOJ INDUSTRIES.  
PLOT NO. 30, MIDC, SHIROLI MIDC,  
KOLHAPUR - 416 122.

Type of Survey : Work Area monitoring

Date of Sampling : 06<sup>th</sup> July 2023.

Instrument : Low Volume Air Samplers

Location : Plant Area

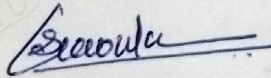
The following monitoring work is carried out in working zone at a approximate distance of 1.0 -1.5 meter from the actual operation & at a height of 1.5 meter from the floor. The permissible limits of exposure for Total Dust.

Sr. No.	Pollutant	Method	8 hr. TWA Limit
01	Total Dust	NIOSH - 0500	10.0 mg/m <sup>3</sup>


### Work Area Summary Report

Sr. No.	LOCATION	POLLUTANT	RESULT	Limit
01	Molding Area	Total Dust	2.19	10.0 mg/m <sup>3</sup>

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## TEST REPORT

No. GLH/W/0723 – 01/23

Date: 14/07/2023

Name of Company : M/S. MANOJ INDUSTRIES.  
PLOT NO. 30, MIDC, SHIROLI MIDC,  
KOLHAPUR – 416 122.

Type of Job	Monitoring and Analysis of Total Dust
Date of Sampling	06/07/2023
Area / Dept.	Molding Area

### SAMPLING METHODOLOGY :

Instrument used	Low Volume Air Sampler SKC, PCXR-8, SR.NO.A116454
Calibration Detail	Cert No. TECH/CAL/2023/06.H/12, Date of Calibration 27/06/2023
Collection media	Filter Paper
Sampling duration	120.0 minutes
Flow Rate	1.0 LPM
Measurement Method	Gravimetric [W / V]

### ANALYSIS RESULTS :-

Sr. No.	Location	Activity	Pollutant	Result in mg/m <sup>3</sup>	Limit
01	Molding Area	pouring the metal in a mold	Total Dust	2.19	10.0 mg/m <sup>3</sup>

### CONCLUSION :-

Area concentration of **Total Dust** while carrying out the routine Activities like Metals are cast into shapes by melting them into a liquid, pouring the metal in a mold area was found to be **2.19 mg/m<sup>3</sup>** which is **below** the limit of **10.0 mg/m<sup>3</sup> TWA** for 8 hrs.

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## TEST REPORT

No. GLH/II/0724/23

Date: 14/07/2023

### ILLUMINATION SURVEY

Name of Company : M/S. MANOJ INDUSTRIES.  
PLOT NO. 30, MIDC, SHIROLI MIDC,  
KOLHAPUR – 416 122.

Type of Survey : **Preliminary Illumination Level Survey**

Location : PLANT AREA

Date of Survey : 07<sup>th</sup> July 2023.

Instrument used : Testo - 540, SR.NO. 39103478/0720,

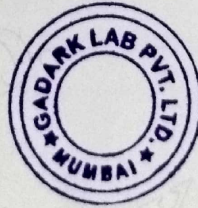
Date of Calibration : 12/10/2022 to 11/10/2023

Calibrated By : SKY Instruments & Controls.

The Maharashtra Factories Act Rule 1963 rule 35 the Illumination for fabrication activity category of plant limit is 100 LUX.

As per The Factories Act, 1948 with The Factories Rules, 1963 Standards of lighting of factories. The minimum intensity of illumination for the different areas and workrooms of the type given under Schedule 'A' & Schedule 'B'

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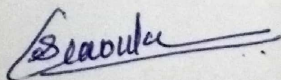
## SCHEDULE 'A'

Sr. No.	Area & Work-room	Minimum intensity of illumination in Lux
01	Stock-yards, main entrance and exit roads, cat-walks of outdoor plants, coal unloading and storage areas	20
02	Passage-ways and corridors and stairways, warehouses, stock-rooms for large and bulky materials, platforms of outdoor plants basements	50
03	Engine & boiler rooms, passengers & freight elevators, conveyer crating and boxing departments, store-rooms and stock-rooms for medium and fine materials, lockers rooms, toilets and wash rooms	100

## SCHEDULE 'B'

Sr. No.	Nature of work	Examples	Minimum intensity of illumination in Lux
01	Where discrimination of detail is not essential	Handling of material of coarse nature, rough sorting, grinding of clay products, handling coal or ashes	50
02	Where slight discrimination of detail is essential	<b>Production of semi-finished iron and steel products</b> , rough assembling, milling of grains, opening, carding, drawing slubbing, roving, spinning (ordinary) counts of cotton	100
03	Where moderate discrimination of detail is essential	Medium assembling, rough bench work and machine work inspection and testing of products, canning, sawing veneering planing of lumber sewing of light coloured textiles and leather products, weaving light thread, wrapping, slashing doubling (fancy) spinning fine counts	200
04	Where close discrimination of detail is essential	Medium bench and machine work 300 fine testing, flour grading, leather finishing, weaving cotton goods or light coloured woolen goods welding sub-assembly, drilling rivetting bookbinding and folding.	300
05	Where discrimination of fine detail is involved under a fair degree of contrast for long periods of time	Fine assembling fine bench and machine work fine inspection, fine polishing and bevelling of glass, fine wood working, weaving dark coloured woollen goods.	500
06	Where discrimination of extremely fine detail is involved under conditions of extremely poor contrast for long periods of time.	Extra fine assembling extra fine inspection, testing of extra fine instruments jewellery and watch manufacturing grading and working of tobacco products dark cloth hand tailoring, final perching in dye works, make-up and proof reading in printing plants.	1000

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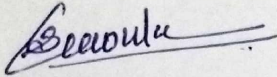


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Sr. No.	Area/ Location	Activity	Light intensity in LUX		LIMIT
			Day	Night	
01	Molding Area	molding & pouring activity	304	284	100
02	Machine Shop Area	Machining	290	171	100

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