



Idma Laboratories Limited

TEST REPORT

Lab No.	200722N-E-003		Page No. 1
Customer	Meters & Instruments Pvt. Limited Plot No. 143-A Industrial Area Phase- 1, Chandigarh Candigarh		
Type of Sample	Ambient Air		
Customer's Description of Sample	Ambient Air		
Quantity	1 No.		
Packing, Markings	Filter Paper Packed in Polythene Pouch. N/A		
Mode of Collection of Sample	Sampling by Laboratories		
Work Order No.	NIL	Dated	18/07/2022
Date of Receipt of Sample	20/07/2022		
Period of Analysis	20/07/2022 To 27/07/2022		
Sampling Team Idma	Idma Representative Team	Client	Mr.Devendra Singh
Sampling Location	Ground Floor Near Main Gate		
Visual Observation	N/A		
Date of Sampling	18/07/2022		
Date of Reporting	27/07/2022		
Sampling Protocol	IS: 5182		
Testing Protocol	NAAQS		

RESULTS

S.No.	Test Parameter	Units	Results	Specifications	Test Method
	CHEMICAL TESTING (Ambient air)	-	-	-	-
1	PM10	µg/m³	82.3	Max. 100	NAAQMS/36/2012-13(Gravimetric method)
2	SO2	µg/m³	19.6	Max. 80	NAAQMS/36/2012-13(Improved West & Gaeke method)
3	NO2	µg/m³	26.5	Max. 80	NAAQMS/36/2012-13(Modified Jacob & Hochheiser method)
4	PM2.5	µg/m³	40.9	Max. 60	NAAQMS/36/2012-13(Gravimetric method)

Reviewed by
Karan Singh
Technical Manager

Authorised signatory
Suman Sharma
Technical Manager

Idma Laboratories Limited

Idma Corporate Park,
391, Industrial Area, Phase-I,
Panchkula-134113,
Haryana (India)
Tel No. 0172-5064827, 5064830
Website : www.idmagroup.co.in
Email : commercial@idmalab.co.in

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TEST REPORT

Lab No.	200722N-E-004	Page No. 1
Customer	Meters & Instruments Pvt. Limited Plot No. 143-A Industrial Area Phase- 1, Chandigarh Candigarh	
Type of Sample	Ambient Air	
Customer's Description of Sample	Ambient Air	
Quantity	1 No.	
Packing, Markings	Filter Paper Packed in Polythene Pouch. N/A	
Mode of Collection of Sample	Sampling by Laboratories	
Work Order No.	NIL	Dated 18/07/2022
Date of Receipt of Sample	20/07/2022	
Period of Analysis	20/07/2022 To 27/07/2022	
Sampling Team Idma	Idma Representative Team	Client Mr.Devendra Singh
Sampling Location	Ground Area (Hall Area)	
Visual Observation	N/A	
Date of Sampling	18/07/2022	
Date of Reporting	27/07/2022	
Sampling Protocol	IS: 5182	
Testing Protocol	NAAQS	

RESULTS

S.No.	Test Parameter	Units	Results	Specifications	Test Method
	CHEMICAL TESTING (Ambient air)	-	-	-	-
1	PM10	µg/m³	81.5	Max. 100	NAAQMS/36/2012-13(Gravimetric method)
2	SO2	µg/m³	19.2	Max. 80	NAAQMS/36/2012-13(Improved West & Gaeke method)
3	NO2	µg/m³	25.9	Max. 80	NAAQMS/36/2012-13(Modified Jacob & Hochheiser method)
4	PM2.5	µg/m³	40.4	Max. 60	NAAQMS/36/2012-13(Gravimetric method)

Reviewed by
Kartar Singh
Technical Manager

Authorized Signatory
Sumit Sharma
Technical Manager

Idma Laboratories Limited

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Idma Laboratories Limited

TEST REPORT

Lab No.	200722N-E-005	Page No. 1/2
Customer	Meters & Instruments Pvt. Limited Plot No. 143-A Industrial Area Phase- 1, Chandigarh Candigarh	
Type of Sample	Stack Emission (DG)	
Customer's Description of Sample	Stack Emission (DG)	
Quantity	1 No.	
Packing, Markings	Thimble Packed in Polythene Pouch. N/A	
Mode of Collection of Sample	Sampling by Laboratories	
Work Order No.	NIL	Dated 18/07/2022
Date of Receipt of Sample	20/07/2022	
Period of Analysis	20/07/2022 To 27/07/2022	
Sampling Team Idma	Idma Representative Team	Client Mr.Devendra Singh
Sampling Location	Stack Attach DG Set Sudhir 25332945, 500 KVA	
Visual Observation	N/A	
Date of Sampling	18/07/2022	
Date of Reporting	27/07/2022	
Sampling Protocol	CPCB	
Testing Protocol	CPCB	

RESULTS

S.No.	Test Parameter	Units	Results	Specifications	Test Method
	CHEMICAL TESTING (Stack Emission)	-	-	-	-
	GENERAL INFORMATIONS:	-	-	-	-
1	Stack Height	Meters	30	-	-
2	Stack Diameter	Meters	0.305	-	-
3	Ambient Temperature	°C	30	-	-
4	Stack Temperature	°C	117	-	-
5	Velocity	m/s	8.9	-	-
6	Type of Fuel	-	HSD	-	-
7	Sampling Flow rate	LPM	29	-	-

27/07/22
Reviewed by
(DPT1)

27/07/22
Authorised signatory
(Suman Singh)
Panchkula

Idma Laboratories Limited

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Idma Laboratories Limited

TEST REPORT

Lab No.		200722N-E-005				Page No. 2/2
S.No.	Test Parameter	Units	Results	Specifications	Test Method	
8	Sampling Time	Minutes	34	-	-	
9	Volumetric Flow rate	Nm ³ /hr	1798.6	-	-	
	PARAMETERS:	-	-	-	-	
10	PM	g/kW-hr	0.10	Max. 0.2	USEPA Method 5	
11	CO	g/kW-hr	1.9	Max. 3.5	USEPA Method 10, 10 A	
12	NOx + HC	g/kW-hr	2.6	Max. 4.0	USEPA Method 7E	
13	SO2	g/kW-hr	1.1	-	USEPA Method 6C	

27/07/20
Reviewed by
(DIP11)

End of Report

27/07/20
Authorised signatory
(Sumanpreet Singh)

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Idma Laboratories Limited

TEST REPORT

Lab No.	200722N-E-006			Page No. 1/2	
Customer	Meters & Instruments Pvt. Limited Plot No. 143-A Industrial Area Phase- 1, Chandigarh Candigarh				
Type of Sample	Stack Emission (DG)				
Customer's Description of Sample	Stack Emission (DG)				
Quantity	1 No.				
Packing, Markings	Thimble Packed in Polythene Pouch. N/A				
Mode of Collection of Sample	Sampling by Laboratories				
Work Order No.	NIL			Dated	18/07/2022
Date of Receipt of Sample	20/07/2022				
Period of Analysis	20/07/2022 To 27/07/2022				
Sampling Team Idma	Idma Representative Team			Client	Mr.Devendra Singh
Sampling Location	Stack Attach DG Set Sudhir 25335480,1010KVA				
Visual Observation	N/A				
Date of Sampling	18/07/2022				
Date of Reporting	27/07/2022				
Sampling Protocol	CPCB				
Testing Protocol	CPCB				

RESULTS

S.No.	Test Parameter	Units	Results	Specifications	Test Method
	CHEMICAL TESTING (Stack Emission)	-	-	-	-
	GENERAL INFORMATION:	-	-	-	-
1	Stack Height	Meters	30	-	-
2	Stack Diameter	Meters	0.305	-	-
3	Ambient Temperature	°C	31	-	-
4	Stack Temperature	°C	136	-	-
5	Velocity	m/s	10.8	-	-
6	Type of Fuel	-	HSD	-	-
7	Sampling Flow rate	LPM	27	-	-

Signature 27/07/22
Reviewed by
(DIP11)

Authorised signatory
(*Signature*)
Idma Laboratories Limited
Panchkula

Idma Laboratories Limited

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TEST REPORT

Lab No.		200722N-E-006				Page No. 2/2
S.No.	Test Parameter	Units	Results	Specifications	Test Method	
8	Sampling Time	Minutes	31	-	-	
9	Volumetric Flow rate	Nm ³ /hr	2088.1	-	-	
	PARAMETERS:	-	-	-	-	
10	PM	mg /Nm ³	65.2	Max. 75	USEPA Method 5	
11	CO	mg /Nm ³	58.0	Max. 150	USEPA Method 10, 10A	
12	NOx	ppmv	137.5	Max. 710	USEPA Method 7E	
13	SO2	mg /Nm ³	32.8	-	USEPA Method 6C	

End of Report

Signature 27/07/22
Reviewed by
(DPT11)

Signature 27/07/22
Authorised signatory
(Sunil Kumar)


Idma Laboratories Limited

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Idma Laboratories Limited

TEST REPORT

Lab No.	200722N-E-007	Page No. 1
Customer	Meters & Instruments Pvt. Limited Plot No. 143-A Industrial Area Phase- 1, Chandigarh Candigarh	
Type of Sample	Noise Level D.G.	
Customer's Description of Sample	Noise Level D.G.	
Quantity	1 No.	
Packing, Markings	Instrument at Site. N/A	
Mode of Collection of Sample	Sampling by Laboratories	
Work Order No.	NIL	Dated 18/07/2022
Date of Receipt of Sample	20/07/2022	
Period of Analysis	20/07/2022 To 27/07/2022	
Sampling Team Idma	Idma Representative Team	Client Mr.Devendra Singh
Sampling Location	DG 500 KVA	
Visual Observation	N/A	
Date of Sampling	18/07/2022	
Date of Reporting	27/07/2022	
Sampling Protocol	CPCB	
Testing Protocol	CPCB	

RESULTS

S.No.	Test Parameter	Units	Result	Specifications	Test Method
	CHEMICAL DISCIPLINE (Source Noise Level)	-	-	-	-
1	1.0 m from the enclosure surface	dB(A)	73.4	Max. 75.0	EPA Guideline Manual July 2008
2	0.5 m surface acoustic enclosure when door are open	dB (A)	101.3	--	EPA Guideline Manual July 2008
3	0.5 m surface acoustic enclosure when door are Close	dB (A)	75.8	--	EPA Guideline Manual July 2008
4	Insertion Loss	dB (A)	25.5	Min. 25	EPA Guideline Manual July 2008

27/07/22
Reviewed by
(DPT1)

27/07/22
Authorised Signatory
(Suman Sharma)
Panchkula

Idma Laboratories Limited

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Idma Laboratories Limited

TEST REPORT

Lab No.	200722N-E-008		Page No. 1
Customer	Meters & Instruments Pvt. Limited Plot No. 143-A Industrial Area Phase- 1, Chandigarh Candigarh		
Type of Sample	Noise Level D.G.		
Customer's Description of Sample	Noise Level D.G.		
Quantity	1 No.		
Packing, Markings	Instrument at Site. N/A		
Mode of Collection of Sample	Sampling by Laboratories		
Work Order No.	NIL	Dated	18/07/2022
Date of Receipt of Sample	20/07/2022		
Period of Analysis	20/07/2022 To 27/07/2022		
Sampling Team Idma	Idma Representative Team	Client	Mr.Devendra Singh
Sampling Location	DG 1010 KVA		
Visual Observation	N/A		
Date of Sampling	18/07/2022		
Date of Reporting	27/07/2022		
Sampling Protocol	CPCB		
Testing Protocol	CPCB		

RESULTS

S.No.	Test Parameter	Units	Result	Specifications	Test Method
	CHEMICAL DISCIPLINE (Source Noise Level)	-	-	-	-
1	1.0 m from the enclosure surface	dB(A)	74.2	Max. 75.0	EPA Guidline Manual July 2008
2	0.5 m surface acoustic enclosure when door are open	dB (A)	102.3	--	EPA Guidline Manual July 2008
3	0.5 m surface acoustic enclosure when door are Close	dB (A)	76.6	--	EPA Guidline Manual July 2008
4	Insertion Loss	dB (A)	25.7	Min. 25	EPA Guidline Manual July 2008

[Signature] 27/07/22
Reviewed by
(DIP11)

[Signature] 27/07/22
Authorized Signatory
(Suman Sharma)

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Idma Laboratories Limited

TEST REPORT

Lab No.	200722N-E-009	Page No. 1
Customer	Meters & Instruments Pvt. Limited Plot No. 143-A Industrial Area Phase- 1, Chandigarh Candigarh	
Type of Sample	Waste Water (STP Inlet)	
Customer's Description of Sample	Waste Water (STP Inlet)	
Quantity	5 Ltr.	
Packing, Markings, Seal & Quantity	Plastic Can. N/A	
Mode of Collection of Sample	Sampling by Laboratories	
Work Order No.	NIL	Dated 18/07/2022
Date of Receipt of Sample	20/07/2022	
Period of Analysis	20/07/2022 To 27/07/2022	
Sampling Team Idma	Idma Representative Team	Client Mr.Devendra Singh
Sampling Location	STP Plant (STP Inlet 120 KLD)	
Visual Observation	N/A	
Date of Sampling	18/07/2022	
Date of Reporting	27/07/2022	
Sampling Protocol	IS: 3025 (P-1) 1987	
Testing Protocol	CPCB	

RESULTS

S.No.	Test Parameter	Units	Results	Test Method
	CHEMICAL TESTING (Waste Water)	-	-	-
1	pH	-	6.51	APHA4500-H+ B23rd Edition 2017
2	Chemical Oxygen Demand (COD)	mg/L	517.4	CPCB Guide Manual:Water & waste water Analysis
3	Biochemical Oxygen Demand (BOD), 3-days at 27 °C	mg/L	102	CPCB Guide Manual:Water & waste water Analysis
4	Oil & Grease	mg/L	8.6	EPA Method 1664
5	Total Dissolved Solids (TDS)	mg/L	1475	APHA2540 C23rd Edition 2017
6	Total Suspended Solids (TSS)	mg/L	192	APHA2540 D23rd Edition 2017

27/07/22
Reviewed by
(D1711)

27/07/22
Authorised signatory
(Suman Sharma)
Ms Suman Sharma
Tech. Mgr.

Idma Laboratories Limited

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Idma Laboratories Limited

TEST REPORT

Lab No.	200722N-E-010			Page No. 1
Customer	Meters & Instruments Pvt. Limited Plot No. 143-A Industrial Area Phase- 1, Chandigarh Candigarh			
Type of Sample	Waste Water (STP Outlet)			
Customer's Description of Sample	Waste Water (STP Outlet)			
Quantity	5 Ltr.			
Packing, Markings	Plastic Can. N/A			
Mode of Collection of Sample	Sampling by Laboratories			
Work Order No.	NIL	Dated	18/07/2022	
Date of Receipt of Sample	20/07/2022			
Period of Analysis	20/07/2022 To 27/07/2022			
Sampling Team Idma	Idma Representative Team	Client	Mr.Devendra Singh	
Sampling Location	STP Plant (STP Outlet 120 KLD)			
Visual Observation	N/A			
Date of Sampling	18/07/2022			
Date of Reporting	27/07/2022			
Sampling Protocol	IS: 3025 (P-1) 1987			
Testing Protocol	CPCB			

RESULTS

S.No.	Test Parameter	Units	Results	Specifications	Test Method
	CHEMICAL TESTING (Waste Water)	-	-	-	-
1	pH	-	7.53	6.5-9.0	APHA4500-H+ B23rd Edition 2017
2	Chemical Oxygen Demand (COD)	mg/L	50.9	-	CPCB Guide Manual:Water & waste water Analysis
3	Biochemical Oxygen Demand (BOD), 3-days at 27 °C	mg/L	17	Max. 20	CPCB Guide Manual:Water & waste water Analysis
4	Oil & Grease	mg/L	2.8	-	EPA Method 1664
5	Total Dissolved Solids (TDS)	mg/L	554	-	APHA2540 C23rd Edition 2017
6	Total Suspended Solids (TSS)	mg/L	31	Max. 50	APHA2540 D23rd Edition 2017

Reviewed by

(DPT)

Authorised Signatory

(Suman Sharma)

Idma Laboratories Limited

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Lab No.	200722N-E-011			Page No. 1/2	
Customer	Meters & Instruments Pvt. Limited Plot No. 143-A Industrial Area Phase- 1, Chandigarh Candigarh				
Type of Sample	Borewell Water				
Customer's Description of Sample	Borewell Water				
Quantity	5 Ltr.				
Packing, Markings, Seal & Quantity	Plastic Can. N/A				
Mode of Collection of Sample	Sampling by Laboratories				
Work Order No.	NIL		Dated	18/07/2022	
Date of Receipt of Sample	20/07/2022				
Period of Analysis	20/07/2022 To 27/07/2022				
Sampling Team Idma	Idma Representative Team		Client	Mr.Devendra Singh	
Sampling Location	Ground Floor				
Visual Observation	N/A				
Date of Sampling	18/07/2022				
Date of Reporting	27/07/2022				
Sampling Protocol	IS: 3025 (P-1) 1987				
Testing Protocol	IS: 10500:2012 Amdt 1 & 2				

RESULTS

S.No.	Test Parameter	Units	Results	Limit of IS: 10500-2012		Test Method
				Requirement (Acceptable Limit)	Permissible Limit in absence of alternate Source	
	Chemical Testing (Water)	-	-	-	-	-
1	Color	Hazen	1	Max. 5	Max. 15	APHA 2120 B&C 23rd Edition, 2017
2	pH	-	7.36	6.5-8.5	No Relaxation	APHA 4500H+B 23rd Edition, 2017
3	Alkalinity as CaCO ₃	mg/L	175	Max. 200	Max. 600	APHA 2320 B 23rd Edition, 2017
4	Calcium as Ca	mg/L	37.7	Max. 75	Max. 200	APHA 3500-Ca B 23rd Edition, 2017
5	Chloride as Cl	mg/L	28.3	Max. 250	Max. 1000	APHA 4500Cl- B 23rd Edition, 2017
6	Magnesium as Mg	mg/L	13.1	Max. 30	Max. 100	APHA 3500 Mg B 23rd Edition 2017
7	Fluoride as F	mg/L	0.49	Max. 1	Max. 1.5	CPCB Guide Manual:Water & waste water Analysis

Reviewed by
(DPTI)

Authorised signatory

(Signature)



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Idma Laboratories Limited

TEST REPORT

Lab No.		200722N-E-011				Page No. 2/2
S.No.	Test Parameter	Units	Results	Limit of IS: 10500-2012		Test Method
				Requirement (Acceptable Limit)	Permissible Limit In absence of alternate Source	
8	Hardness Total (as CaCO ₃)	mg/L	146	Max. 200	Max. 600	APHA 2340C 23rd Edition, 2017
9	Total Dissolved Solids	mg/L	358	Max. 500	Max. 2000	APHA 2540 C 23rd Edition, 2017
10	Sulphate as SO ₄	mg/L	31.2	Max. 200	Max. 400	APHA 4500-SO ₄ -4 E 23rd Edition, 2017
11	Turbidity	NTU	<1	Max. 1	Max. 5	APHA 3130 B 23rd Edition, 2017
12	Taste	Qualitative	Agreeable	Agreeable	Agreeable	APHA 2160 B 23rd Edition, 2017
13	Residual Free chlorine	mg/L	0.21	Min. 0.2	1	APHA 4500Cl B 23rd Edition, 2017
14	Sulphide	mg/L	<0.01	Max. 0.05	No Relaxation	APHA 4500S ² - F 23rd Edition, 2017
15	Cadmium	mg/L	<0.0005	Max. 0.003	No Relaxation	APHA 3125 B 23rd Edition 2017
	Biological Testing (Water)	-	-	-	-	-
16	E. Coli	/100ml	Absent	Shall not be detectable in any 100ml sample	-	IS 15185:2016
17	Total Coliform Bacteria	/100ml	Absent	Shall not be detectable in any 100ml sample	-	IS 15185:2016

End of Report

[Signature] 27/07/22
Reviewed by
(DIPU)

[Signature] 27/07/22
Authorised signatory
(S. S. Sharma)

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