



# Idma Laboratories Limited

(A Government Approved Test House)

MDEF/BIS/FSSAI/State Pollution Boards/Drug & Cosmetic Act/ISO 9001; 14001; 18001 Certified

## TEST REPORT

Ref. No. IL/D- 25392	Date 31.03.21	Lab No. 030321N-E-022	Page No. 1/1
Customer	Airports Authority of India Civil Airport Jammu Cantt		
Type of Sample	Ambient Air		
Customer's Description of Sample	Ambient Air		
Quantity	1 No.		
Packing, Markings	Filter Paper Packed in Polythene Pouch		
Mode of Collection of Sample	Sampling by Laboratories	Dated	23/03/2021
Work Order No.	AA/JAMMU/ENGG/(C)/W-26/2		
Date of Receipt of Sample	26/03/2021		
Period of Analysis	26/03/2021 To 31/03/2021	Client	Mr. Anil Kumar
Sampling Team Idma	Idma Representative Team		
Sampling Location	Project Site		
Visual Observation	N/A		
Date of Sampling	24/03/2021		
Date of Reporting	31/03/2021		
Sampling Protocol	IS 5182-1987		
Testing Protocol	NAAQS		

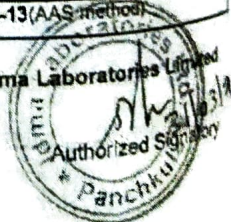
## RESULTS

S.No.	Test Parameter	Units	Results	Specifications	Test Method
	CHEMICAL TESTING (Ambient air)	-	-	-	-
1	PM10	µg/m <sup>3</sup>	78.5	Max. 100	NAAQMS/36/2012-13(Gravimetric method)
2	SO2	µg/m <sup>3</sup>	18.2	Max. 80	NAAQMS/36/2012-13(Improved West & Gaeke method)
3	NO2	µg/m <sup>3</sup>	24.9	Max. 80	NAAQMS/36/2012-13(Modified Jacob & Hochheiser method)
4	CO	µg/m <sup>3</sup>	0.45	Max. 2	NAAQMS/36/2012-13 & IS:5182(P-10): 1999
5	NH3	µg/m <sup>3</sup>	30.6	Max. 400	NAAQMS/36/2012-13(Indophenol method)
6	PM2.5	µg/m <sup>3</sup>	38.1	Max. 60	NAAQMS/36/2012-13(Gravimetric method)
7	Ozone	µg/m <sup>3</sup>	22	Max. 100	NAAQMS/36/2012-13(Chemical method)
8	Benzene	µg/m <sup>3</sup>	<0.5	Max. 5	NAAQMS/36/2012-13(GC method)
9	Benzo-a-Pyrene(BaP) - Particulate phase	ng/m <sup>3</sup>	Not Detected	Max. 1	NAAQMS/36/2012-13(GC method)
10	Arsenic	ng/m <sup>3</sup>	<0.1	Max. 6	NAAQMS/36/2012-13(AAS method)
11	Nickel	ng/m <sup>3</sup>	<0.1	Max. 20	NAAQMS/36/2012-13(AAS method)
12	Lead	µg/m <sup>3</sup>	<0.1	Max. 1	NAAQMS/36/2012-13(AAS method)

\*\*End of Report\*\*

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31/3/21

For Idma Laboratories Limited



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## TEST REPORT

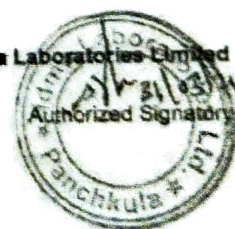
Ref. No. IL/D-	25393	Date	31.03.21	Lab No.	030321N-E-023	Page No.	1/1
Customer	Airports Authority of India Civil Airport Jammu Cantt						
Type of Sample	NOISE LEVEL (AMBIENT)						
Customer's Description of Sample	NOISE LEVEL (AMBIENT)						
Quantity	1 No.						
Packing, Markings	Instrument at Site.						
Mode of Collection of Sample	Sampling by Laboratories						
Work Order No.	AAI/JAMMU/ENGG/(C)/M-26/2					Date	23/03/2021
Date of Receipt of Sample	26/03/2021						
Period of Analysis	26/03/2021 To 31/03/2021						
Sampling Team Idma	Idma Representative Team					Client	Mr. Anil Kumar
Sampling Location	Project Site						
Visual Observation	N/A						
Date of Sampling	24/03/2021						
Date of Reporting	31/03/2021						
Sampling Protocol	CPCB						
Testing Protocol	EPA/CPCB						

## RESULTS

S.No.	Test Parameter	Units	Results	Limits, Day	Test Method
	CHEMICAL DISCIPLINE (Ambient Noise Levels)				
1	L <sub>day</sub>	dB(A)	62.3	Max. 65	EPA Guidline Manual July 2008
2	L <sub>Night</sub>	dB(A)	57.6	Max. 60	EPA Guidline Manual July 2008

\*\*End of Report\*\*

For Idma Laboratories Limited  
Authorized Signatory



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## TEST REPORT

Ref. No. IL/D- 25344	Date 31.03.21	Lab No. 030321N-E-024	Page No. 1/1
Customer	Airports Authority of India Civil Airport Jammu Cantt		
Type of Sample	Stack Emission (DG)		
Customer's Description of Sample	Stack Emission (DG)		
Quantity	1 No.		
Packing, Markings	Thimble Packed in polythene Pouch.		
Mode of Collection of Sample	Sampling by Laboratories		
Work Order No.	AAI/JAMMU/ENGG/(C)/W-26/2	Dated	23/03/2021
Date of Receipt of Sample	26/03/2021		
Period of Analysis	26/03/2021 To 31/03/2021		
Sampling Team Idma	Idma Representative Team	Client	Mr. Anil Kumar
Sampling Location	Stack Attached Chimneys DG-No.1, 750 KVA		
Visual Observation	N/A		
Date of Sampling	24/03/2021		
Date of Reporting	31/03/2021		
Sampling Protocol	CPCB		
Testing Protocol	CPCB		

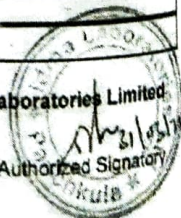
## RESULTS

S.No.	Test Parameter	Units	Results	Specifications	Test Method
	CHEMICAL TESTING (Stack emission)	-	-	-	-
	GENERAL INFORMATION:	-	-	-	-
1	Stack Height	Meters	8	-	-
2	Stack dia	Meters	0.1524	-	-
3	Ambient Temperature	°C	24	-	-
4	Stack Temperature	°C	130	-	-
5	Velocity	m/s	10	-	-
6	Type of Fuel	-	HSD	-	-
7	Sampling Flow rate	LPM	28.6	-	-
8	Sampling Time	Minutes	38	-	-
9	Volumetric Flow rate	Nm <sup>3</sup> /hr	489	-	-
	PARAMETERS:	-	-	-	-
10	PM	g/kW-hr	0.11	Max. 0.2	USEPA Method 5
11	CO	g/kW-hr	1.7	Max. 3.5	USEPA Method 10,10A
12	NOx + HC	g/kW-hr	2.4	Max. 4.0	USEPA Method 7E
13	SO2	g/kW-hr	0.31	-	USEPA Method 6C

\*\*End of Report\*\*

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## TEST REPORT

Ref. No. IL/D- 25395	Date 31.03.21	Lab No. 030321N-E-026	Page No. 1/1
Customer	Airports Authority of India Civil Airport Jammu Cantt		
Type of Sample	Stack Emission (DG)		
Customer's Description of Sample	Stack Emission (DG)		
Quantity	1 No.		
Packing, Markings	Thimble Packed in polythene Pouch.		
Mode of Collection of Sample	Sampling by Laboratories		
Work Order No.	AAI/JAMMU/ENGG(C)W-26/2	Dated	23/03/2021
Date of Receipt of Sample	26/03/2021		
Period of Analysis	26/03/2021 To 31/03/2021		
Sampling Team Idma	Idma Representative Team	Client	Mr. Anil Kumar
Sampling Location	Stack Attached Cummins DG-No.2, 750 KVA		
Visual Observation	N/A		
Date of Sampling	24/03/2021		
Date of Reporting	31/03/2021		
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	8	-	-
2	Stack dia	Meters	0.1524	-	-
3	Ambient Temperature	°C	24	-	-
4	Stack Temperature	°C	136	-	-
5	Velocity	m/s	9.8	-	-
6	Type of Fuel	-	HSD	-	-
7	Sampling Flow rate	LPM	27.3	-	-
8	Sampling Time	Minutes	33	-	-
9	Volumetric Flow rate	Nm <sup>3</sup> /hr	478	-	-
	PARAMETERS:	-	-	-	-
10	PM	g/kW-hr	0.11	Max. 0.2	USEPA Method 5
11	CO	g/kW-hr	1.8	Max. 3.5	USEPA Method 10,10A
12	NOx + HC	g/kW-hr	2.5	Max. 4.0	USEPA Method 7E
13	SO2	g/kW-hr	0.29	-	USEPA Method 6C

\*\*End of Report\*\*

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31/03/21

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## TEST REPORT

Ref. No. R/D-	25396	Date	31/03/21	Lab No.	020321N-E-026	Page No.	1/1
Customer:	Airports Authority of India Chil Airport Jammu Cantt						
Type of Sample	Noise Level D G						
Customer's Description of Sample	Noise Level D G						
Quantity	1 No						
Packing Markings	Instrument at site						
Mode of Collection of Sample	Sampling by Laboratories						
Work Order No	AAI/JAMMU/ENGG/(C)/W-26/2				Dated	23/03/2021	
Date of Receipt of Sample	26/03/2021						
Period of Analysis	26/03/2021 To 31/03/2021						
Sampling Team Idma	Idma Representative Team					Client	Mr. Anil Kumar
Sampling Location	DG Noise Cummins 750 KVA						
Visual Observation	N/A						
Date of Sampling	24/03/2021						
Date of Reporting	31/03/2021						
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 Guidline Manual July 2008
2	0.5 m surface acoustic enclosure when door are open	dB (A)	102.2	-	EPA Guidline Manual July 2008
3	0.5 m surface acoustic enclosure when door are Close	dB (A)	76.5	-	EPA Guidline Manual July 2008
4	Insertion Loss	dB (A)	25.7	Min. 25	EPA Guidline Manual July 2008

\*\*End of Report\*\*

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## TEST REPORT

Ref. No. IL/D-	25347	Date	31.03.21	Lab No.	030321N-E-027	Page No.	1/1
Customer	Airports Authority of India Civil Airport Jammu Cantt						
Type of Sample	Noise Level D.G.						
Customer's Description of Sample	Noise Level D.G.						
Quantity	1 No.						
Packing, Markings	Instrument at site						
Mode of Collection of Sample	Sampling by Laboratories						
Work Order No.	AAI/JAMMU/ENGG/(C)/W-26/2				Dated	23/03/2021	
Date of Receipt of Sample	26/03/2021						
Period of Analysis	26/03/2021 To 31/03/2021						
Sampling Team Idma	Idma Representative Team				Client	Mr. Anil Kumar	
Sampling Location	DG Noise Cummins 750 KVA						
Visual Observation	N/A						
Date of Sampling	24/03/2021						
Date of Reporting	31/03/2021						
Sampling Protocol	CPCB						
Testing Protocol	CPCB						

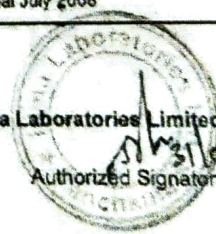
## RESULTS

S.No.	Test Parameter	Units	Result	Specifications	Test Method
	CHEMICAL DISCIPLINE ( Source Noise Level)	-	-	-	-
1	1.0 m from the enclosure surface	dB(A)	72.6	Max. 75.0	EPA Guidline Manual July 2008
2	0.5 m surface acoustic enclosure when door are open	dB (A)	101.9	-	EPA Guidline Manual July 2008
3	0.5 m surface acoustic enclosure when door are Close	dB (A)	76.3	-	EPA Guidline Manual July 2008
4	insertion Loss	dB (A)	25.6	Min. 25	EPA Guidline Manual July 2008

\*\*End of Report\*\*

For Idma Laboratories Limited

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Handwritten initials and date: 31/3/21

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## TEST REPORT

Ref. No. IL/D- 25398	Date 31.03.21	Lab No. 030321N-E-028	Page No. 1/1
Customer	Airports Authority of India Civil Airport Jammu Gantt		
Type of Sample	Waste Water (STP OUTLET)		
Customer's Description of Sample	Waste Water (STP OUTLET)		
Quantity	5 LTR.		
Packing, Markings	Plastic Can.		
Mode of Collection of Sample	Sampling by Laboratories		
Work Order No.	AAI/JAMMU/ENGG(C)/W-26/2	Dated	23/03/2021
Date of Receipt of Sample	26/03/2021		
Period of Analysis	26/03/2021 To 31/03/2021		
Sampling Team Idma	Idma Representative Team	Client	Mr. Anil Kumar
Sampling Location	STP Plant.		
Visual Observation	N/A		
Date of Sampling	24/03/2021		
Date of Reporting	31/03/2021		
Sampling Protocol	IS: 3025-1987		
Testing Protocol	CPCB		

## RESULTS

S.No.	Test Parameter	Units	Results	Specifications	Test Method
	CHEMICAL TESTING (Waste Water)	-	-	-	-
1	pH	-	7.61	6.5-9.0	APHA4500-H+ B23rd Edition 2017
2	Chemical Oxygen Demand (COD)	mg/L	59.2	-	CPCB Guide Manual:Water & waste water Analysis
3	Biochemical Oxygen Demand	mg/L	14	Max. 20	CPCB Guide Manual:Water & waste water Analysis
4	Oil & Grease	mg/L	2.9	-	EPA Method 1664
5	Total Dissolved Solids (TDS)	mg/L	644	-	APHA2540 C23rd Edition 2017
6	Total Suspended Solids (TSS)	mg/L	21	Max. 50	APHA2540 D23rd Edition 2017

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31/3/21

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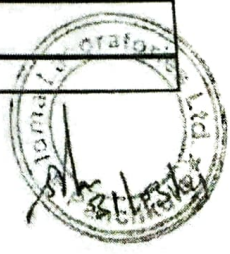
## TEST REPORT

Ref. No. IL/D- 25399	Date 31/03/21	Lab No. 030321N-E-029	Page No. 1/2
Customer	Airports Authority of India Civil Airport Jammu Cantt		
Type of Sample	Drinking Water		
Customer's Description of Sample	Drinking Water		
Quantity	5 LTR.		
Packing, Markings, Seal & Quantity	Plastic Can.		
Mode of Collection of Sample	Sampling by Laboratories		
Work Order No.	AAI/JAMMU/ENGG/(C)/W-26/2	Dated	23/03/2021
Date of Receipt of Sample	26/03/2021		
Period of Analysis	26/03/2021 To 31/03/2021		
Sampling Team Idma	Idma Representative Team	Client	Mr. Anil Kumar
Sampling Location	Terminal		
Visual Observation	N/A		
Date of Sampling	24/03/2021		
Date of Reporting	31/03/2021		
Sampling Protocol	IS: 3025-1987		
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	
	Chemical Testing (Water)					
1	Color	Hazen	<1	Max. 5	Max. 15	APHA 2120 B&C 23rd Edition, 2017
2	Odour	Qualitative	Agreeable	Agreeable	Agreeable	APHA 2150 B 23rd Edition, 2017
3	pH	-	7.26	6.5-8.5	No Relaxation	APHA 4500H+B 23rd Edition, 2017
4	Chloride as Cl	mg/L	15.4	Max. 250	Max. 1000	APHA 4500Cl-B 23rd Edition, 2017
5	Fluoride as F	mg/L	0.2	Max. 1	Max. 1.5	CPCB Guide Manual: Water & waste water Analysis
6	Hardness Total (as CaCO3)	mg/L	85	Max. 200	Max. 600	APHA 2340C 23rd Edition, 2017
7	Total Dissolved Solids	mg/L	121	Max. 500	Max. 2000	APHA 2540 C 23rd Edition, 2017
8	Turbidity	NTU	1	Max. 1	Max. 5	APHA 3130 B 23rd Edition, 2017
9	Taste	Qualitative	Agreeable	Agreeable	Agreeable	APHA 2160 B 23rd Edition, 2017
10	Residual Free chlorine	mg/L	0.21	Min. 0.2	1	APHA 4500Cl B 23rd Edition, 2017
11	Iron as Fe	mg/L	0.09	Max. 1.0	No Relaxation	APHA 3125 B 23rd Edition 2017
	Biological Testing (Water)					
12	E. Coll	/100ml	Absent	Shall not be	-	IS 15185:2016

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## TEST REPORT

Ref. No. IL/D- 25399		Date	31.03.21	Lab No.	030321N-E-029	Page No. 2/2
S.No.	Test Parameter	Units	Results	Limit of IS: 10800-2012		Test Method
				Requirement (Acceptable Limit)	Permissible Limit in absence of alternate	
12				detectable in any 100ml sample		
13	Total Coliform Bacteria	/100ml	Absent	Shall not be detectable in any 100ml sample		IS 15185:2016

\*\*End of Report\*\*

Raj  
5/13/21

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