

To,

The Additional Principal Chief Conservator of Forests (C)

Ministry of Environment, Forest and Climate Change,
Kendriya Bhawan,
5th Floor, Sector "H" Aliganj Lucknow -226020
Email - roc2.lko-mef@nic.in

Sub : Half yearly Compliance report for Environment Clearance for "Proposed terminal building at Amousi Airport," Lucknow.

Ref :

- i. Environment Clearance for "Proposed terminal building at Amousi Airport", Lucknow bearing MoEF letter F.No. 10-18/2007-IA.III vide letter dated 23rd May 2012.
- ii. Transfer of Environment clearance (EC) for the "Proposed terminal building at Amousi Airport", Lucknow, Uttar Pradesh from Airport Authority of India (AAI) to Lucknow International Airport Limited (LIAL) bearing F. No. 10-18/2007-IA-III vide letter dated 16th February 2022.
- iii. Environment Clearance granted for "Construction of new Integrated terminal building and allied facilities" at Guraura, Aurangabad Zagir and Bhaktikhera Villages, Lucknow bearing MoEF letter No. F. No. 10-47/2017-IA.III vide letter dated 26th September 2018.
- iv. EC transfer order for "Construction of new Integrated terminal building and allied facilities" at Guraura, Aurangabad Zagir and Bhaktikhera Villages, Lucknow, Uttar Pradesh from Airport Authority of India (AAI) to Lucknow International Airport Limited (LIAL) bearing F. No. 10-47/2017-IA.III vide dated 17th June 2021.
- v. Name Change in Environmental Clearance for "Expansion of Lucknow Airport in respect of construction of new Integrated terminal building and allied facilities, Lucknow, Uttar Pradesh" bearing F. No. 21-43/2022-IA-III vide dated 2nd April 2022.

Dear Sir,

With reference to the above said Environment Clearances, Lucknow International Airport Limited is hereby submitting the half yearly compliance report for the period of April 2022 to September 2022 through soft copy (e-mail communication).

Request for your kind consideration and acknowledgment.

Thank you,

Yours Sincerely,

For Lucknow International Airport Limited


Balvir Singh Bhatia
Chief Airport Officer

Encl: As above

P.T.O.

Lucknow International Airport Limited
(Formerly known as Adani Lucknow International Airport Ltd)
First Floor Terminal-1,
CCS International Airport Lucknow,
Lucknow-226009
Uttar Pradesh

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Website: www.lucknow.adaniairports.com

CIN: U63030GJ2019PLC109814

Registered Office: Adani Corporate House, Shantigram, Near Vaishno Devi Circle, S. G. Highway, Khodiyar, Ahmedabad – 382 421



Copy to:

- 1) The Director (IA Division), Ministry of Environment, Forests & Climate Change, Indira Paryavaran Bhawan, Jor Bagh Road, New Delhi-110003
- 2) Regional Director, CPCB, First Floor, PIC-UP Building, Vibhuti Khand, Gomtinagar, Lucknow, Uttar Pradesh, India, 226010
- 3) Member Secretary, UPPCB – Building.No. TC-12V Vibhuti Khand, Gomti Nagar Lucknow-226 010
- 4) Regional Officer, Regional Office Lucknow - Picup Bhawan B-Block, 4th Floor, Vibhuti Khand, Gomti Nagar, Lucknow-226010
- 5) The secretary, department of environment, Government of Uttar Pradesh, Lucknow

Lucknow International Airport Limited
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Lucknow International Airport Limited

From: April 2022

To: September 2022

Status of the conditions stipulated in Environment Clearance

**Compliance Report of
Environmental Clearance
dtd. 23rd May 2012
For Construction of
Terminal Building**

	Lucknow International Airport Limited	From: April 2022 To: September 2022
Status of the conditions stipulated in Environment Clearance		

Chaudhary Charan Singh International (CCSI) Airport, Lucknow has been granted Environmental Clearance for "Construction of Terminal Building", Lucknow, Uttar Pradesh vide letter no. 10-18/2007-IA.III, dated 23rd May 2012.

The said EC has been transferred to Lucknow International Airport (LIAL) vide MoEF&CC vide letter no. F.No.10-18/2007-IA.III dated 16th February 2022. Copy of the same attached was submitted as part of Six-monthly compliance report (October'21 to March'22) vide letter no. LIAL/EC/ENV/22-23/0866 dated 31st May 2022.

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Lucknow International Airport Limited

From: April 2022

To: September 2022

Status of the conditions stipulated in Environment Clearance

Half Yearly Compliance report for Environment Clearance for the project
"Construction of Terminal Building"

Sr.No.	Conditions	Compliance Status as on 30 th September 2022
A. Specific Conditions		
I. Construction Phase		
i.	Consent for Establishment" shall be obtained from State Pollution Control Board under Air and Water Act and a copy shall be submitted to the Ministry before start of any construction work at the site	Not applicable Construction activity has already been completed and project is commissioned and under operation.
ii.	The fresh water requirement will be 347 KLD which is proposed to meet from existing two bore wells. The continuous drawl may reduce the yield. The proponent shall use the maximum quantity of treated wastewater to reduce the fresh water requirement. It is also suggested to provide the rain water harvesting pits to recharge the ground water.	Not Applicable Construction activity has already been completed and project is commissioned and under operation.
iii.	The Noise level model has been done for the DG set only, the proponent shall carry out Noise Modelling for aircraft operation, both during landing and take-off and shall submit the details within three months to the Ministry.	Not Applicable Construction activity has already been completed and project is commissioned and under operation.
iv.	The Entry and Exits for the nearby habitations shall be provided as demanded and committed in the public hearing.	Not Applicable Construction activity has already been completed and project is commissioned and under operation.
v.	Necessary architectural features of historical buildings located in and around Lucknow shall be incorporated in the design/interiors of the building.	Not Applicable Construction activity has already been completed and project is commissioned and under operation.

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Status of the conditions stipulated in Environment Clearance

vi.	All the recommendation of the EMP shall be complied with letter and spirit. All the mitigation measures submitted in the EIA report shall be submitted to MoEF prepared in a matrix format and the compliance for each mitigation plan shall be submitted to MoEF along with half yearly compliance report to Regional Office of MoEF.	Not Applicable Construction activity has already been completed and project is commissioned and under operation.
vii.	The solid waste shall be properly collected, segregated and disposed as per the provision of Solid Waste. (Management and Handling) Rules, 2000.	Not Applicable Construction activity has already been completed and project is commissioned and under operation.
viii.	Provision shall be made for the housing of construction labour within the site with all necessary infrastructure and facilities such as fuel for cooking, mobile toilets, mobile STP, safe drinking water, medical- health care, crèche etc. The housing may be in the form of temporary structures to be removed after the completion of the project.	Not Applicable Construction activity has already been completed and project is commissioned and under operation.
ix.	A First Aid Room will be provided in the project both during construction and operation of the project.	Complied A First Aid Room facility has been provided at Terminal-2. Details and Photograph was submitted as part of Six-monthly compliance report (October'21 to March'22) vide letter no. LIAL/EC/ENV/22-23/0866 dated 31 st May 2022.
x.	All the topsoil excavated during construction activities should be stored for use in horticulture/landscape development within the project site.	Not Applicable Construction activity has already been completed and project is commissioned and under operation.

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Status of the conditions stipulated in Environment Clearance

xi.	Disposal of muck during construction phase should not create any adverse effect on the neighbouring communities and be disposed taking the necessary precautions for general safety and health aspects of people, only in approved sites with the approval of competent authority.	Not Applicable Construction activity has already been completed and project is commissioned and under operation.
xii.	Soil and ground water samples will be tested to ascertain that there is no threat to ground water quality by leaching of heavy metals and other toxic contaminants.	Not Applicable Construction activity has already been completed and project is commissioned and under operation.
xiii.	Construction spoils, including bituminous material and other hazardous materials, must not be allowed to contaminate watercourses and the dump sites for such material must be secured so that they should not leach into the ground water.	Not Applicable Construction activity has already been completed and project is commissioned and under operation.
xiv.	Installation and operation of DG set shall comply with the guidelines of CPCB.	Not Applicable Construction activity has already been completed and project is commissioned and under operation.
xv.	The diesel generator sets to be used during construction phase should be low sulphur diesel type and should conform to Environment (Protection) Rules prescribed for air and noise emission standards.	Not Applicable Construction activity has already been completed and project is commissioned and under operation.
xvi.	The diesel required for operating DG sets shall be stored in underground tanks and if required, clearance from Chief Controller of Explosives shall be taken.	Not Applicable Construction activity has already been completed and project is commissioned and under operation.

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Status of the conditions stipulated in Environment Clearance

xvii.	Vehicles hired for bringing construction material to the site should be in good condition and should have a pollution check certificate and should conform to applicable air and noise emission standards and should be operate only during non-peak hours.	<p>Not Applicable</p> <p>Construction activity has already been completed and project is commissioned and under operation.</p>
xviii.	Ambient noise levels should conform to residential standards both during day and night. Incremental pollution loads on the ambient air and noise quality should be closely monitored during construction phase. Adequate measures should be made to reduce ambient air and noise level during construction phase, so as to conform to the stipulated standards by CPCB / UPPCB.	<p>Not Applicable</p> <p>Construction activity has already been completed and project is commissioned and under operation.</p>
xix.	Fly ash should be used a building material in the construction as per the provisions of Fly Ash Notification of September, 1999 and amended as on 27th August, 2003.	<p>Not Applicable</p> <p>Construction activity has already been completed and project is commissioned and under operation.</p>
xx.	Ready mixed concrete must be used in building construction.	<p>Not Applicable</p> <p>Construction activity has already been completed and project is commissioned and under operation.</p>
xxi.	Storm water control and its re-use as per CGWB and BIS standards for various applications.	<p>Not Applicable</p> <p>Construction activity has already been completed and project is commissioned and under operation.</p>

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Status of the conditions stipulated in Environment Clearance

xxii.	Water demand during construction should be reduced by use of pre-mixed concrete; curing agents and other best practices referred.	Not Applicable Construction activity has already been completed and project is commissioned and under operation.
xxiii.	Fixtures for showers, toilet flushing and drinking should be of low flow either by use of aerators or pressure reducing devices or sensor based control.	Not Applicable Construction activity has already been completed and project is commissioned and under operation.
xxiv.	Use of glass may be reduced by upto 40% to reduce the electricity consumption and load on air-conditioning. If necessary, use high quality double glass with special reflective coating in windows.	Not Applicable Construction activity has already been completed and project is commissioned and under operation.
xxv.	Roof should meet prescriptive. Requirement as per Energy Conservation Building Code by using appropriate thermal insulation material to fulfil requirement.	Not Applicable Construction activity has already been completed and project is commissioned and under operation.
xxvi.	Opaque wall should meet prescriptive requirement as per Energy. Conservation Building Code which is proposed to be mandatory for all air-conditioned spaces while it is aspirational for non-air-conditioned spaces by use of appropriate thermal insulation material to fulfil requirement.	Not Applicable Construction activity has already been completed and project is commissioned and under operation.
xxvii.	The approval of the competent authority' shall be obtained for structural safety of the buildings due to earthquake, adequacy of fire fighting equipments, etc. as per National Building Code	Not Applicable Construction activity has already been completed and project is commissioned and under operation.

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Status of the conditions stipulated in Environment Clearance

	including protection measures from lightening etc.	
xxviii.	Regular supervision of the above and other measures for monitoring should be in place all through the construction phase, so as to avoid disturbance to the surroundings.	<p>Not Applicable</p> <p>Construction activity has already been completed and project is commissioned and under operation.</p>
xxix.	Under the provisions of Environment protection) Act, 1986, legal action shall be initiated against the -project proponent if it was found that construction of the project has been started without obtaining environmental clearance.	<p>Not applicable</p> <p>Construction activity has already been completed and project is commissioned and under operation.</p>
II. Operation Phase		
i.	Diesel power generating sets proposed as source of back up power for elevators and common area illumination during operation phase should be of enclosed type and conform to rules made under the Environment (Protection) Act, 1986. The height of stack of DG sets should be equal to the height needed for the combined capacity of all proposed DG sets. Use of low sulphur diesel. The location of the DG sets may be decided with in consultation with Uttar Pradesh Pollution Control Board.	<p>Complied</p> <p>Power source for Airport Operation is Madhyanchal Vidyut Vitran Nigam limited.</p> <p>However, for backup and other operational requirement, 12 no. of D.G sets have been installed, inline to Environment (Protection) Act, 1986 & Consent to Operate from UPPCB received vide dtd. 14th May 2021.</p> <p>Low Sulphur diesel is being used for all the DG sets and acoustic Enclosures are provided to DG set.</p> <p>Photograph showing acoustic enclosure to DG set is attached as Annexure - 1</p>
ii.	Noise should be controlled to ensure that it does not exceed the prescribed standards. During night time the noise levels measured at the boundary of the building shall be restricted to the permissible	<p>Complied</p> <p>Following Noise control and mitigation measures are adopted at the site:</p> <ul style="list-style-type: none"> • Standard instrument arrival & departure procedure is

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Status of the conditions stipulated in Environment Clearance

	levels to comply with the prevalent regulations.	<p>implemented to minimize the noise levels of aircrafts</p> <ul style="list-style-type: none"> • Pilots are advised to carry out Continuous Descent approach • Control on the vehicular noise level by maintaining speed & vehicle conditions • DG sets are provided with acoustic enclosures & muffs <p>Regular Noise Monitoring at 06 locations along with Continuous 7 days Flight Path Noise Monitoring at 03 locations is being carried out by MoEF&CC/ NABL approved laboratory.</p> <p>Environment Monitoring report, covering Noise Monitoring carried out during the compliance period (April 2022- September 2022) is attached as Annexure 2. Results at all locations have been observed within the prescribed norms. Same is also being submitted to State Pollution Control Board, along with other regulatory authorities, as a part of Half yearly compliance report.</p>
iii.	The green belt of the adequate width and density preferably with local species along the periphery of the plot shall be raised so as to provide protection against particulates and noise.	<p>Complied</p> <p>6.37 Hectare of Green Cover has been developed considering contextual and functional requirements, and overall environmental and landscape planning approach.</p> <p>Photographs of Green cover and list of species are attached as Annexure-3.</p>
iv.	Rain water harvesting for roof run- off and surface run- off, as plan submitted should be implemented. Before recharging the surface run off, pre-treatment must be done to	<p>Complied</p> <p>Total 22 nos of Rainwater harvesting structures has been provided in Air side and as well as in landside area.</p>

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	remove suspended matter, oil and grease. The borewell for: rainwater recharging should be kept at least 5 mts above the highest ground water table.	
v.	The ground water level and its quality should be monitored regularly in consultation with Central Ground Water Authority.	<p>Complied</p> <p>Ground water monitoring has been carried out on Quarterly basis.</p> <p>Environment Monitoring report covering Ground Water analysis carried out during the compliance period (April 2022- September 2022) is attached as Annexure 2.</p>
vi.	Traffic congestion near the entry and exit points from the roads adjoining the proposed project site must be avoided. Parking should be fully internalized and no public space should be utilized.	<p>Complied.</p> <p>Traffic congestion near entry and exist point managed with the help of security and Traffic Police Department, and sufficient parking space has been managed all the time within the Airport premises.</p> <p>Traffic Management plan covering existing and for New Integrated Terminal Building project was submitted as part of Six-monthly compliance report (October'21 to March'22) vide letter no. LIAL/EC/ENV/22-23/0866 dated 31st May 2022.</p>
vii.	Energy-conservation measures like installation of CFLs/TFLs for the lighting the areas outside the building should be integral part of the project design and should be in place before project commissioning. Use CFLs and TFLs should be properly collected and disposed off/ sent for recycling as per the prevailing guidelines/rules of the regulatory authority to avoid mercury contamination. Use of	<p>Complied</p> <p>Various energy conservation measures like installation of LED lights, solar panels etc implemented at site.</p> <p>Inline to existing operations, Solar panels of total capacity of about 515 KV is installed.</p> <p>(Photographs attached as Annexure-4)</p>

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Status of the conditions stipulated in Environment Clearance

	solar panels may be done to the extent possible.	
viii.	Efforts should be made to use solar energy to the maximum extent possible.	Complied Solar panels of total capacity of about 515 KW is installed. (Photographs of Solar Panels are attached as Annexure-4)
ix.	The building should have adequate distance between them to allow movement of fresh air and passage of natural light, air and ventilation.	Complied Construction of Terminal-1 and Terminal-2 are ensured as per the approved master plan and in accordance with requirement.
B. General Conditions		
i.	In the event of any change in the project profile a fresh reference shall be made to the Ministry of Environment and Forests.	Point Noted
ii.	This Ministry reserves the right to revoke this clearance, if any, of the conditions stipulated are not complied with to the satisfaction of this Ministry.	Noted
iii.	This Ministry or any other competent authority may stipulate any additional conditions subsequently, if deemed necessary, for environmental protection, which shall be complied with.	Noted
iv.	Full support should be extended to the officers of this Ministry's Regional Office at Lucknow and the offices of the Central and State Pollution Control Board by the project proponents during their inspection for monitoring purposes, by furnishing full details and action plans including the action taken reports in respect of mitigative measures and other	Complied IRO, MoEFCC, Lucknow inspected CCSIA on 14 th September 2022 and full support and required documents was provided during the visit.

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	environmental protection activities.	
v.	These stipulations would be enforced among others under the provisions of water (Prevention and Control of Pollution Act, 1974 the Air (Prevention and Control of Pollution) Act 1981, the Environment (Protection) Act, 1986, the Public Liability (Insurance) Act, 1991 and Municipal Solid Wastes (Management and Handling) Rules, 2000 including the amendments and rules made thereafter.	Noted
vi.	All other statutory clearances such as the approvals for storage of diesel, from Chief Controller of Explosives, Fire Department and Civil Aviation Department from height point of view, Forest Conservation Act, 1980 and Wildlife (Protection) Act, 1972 etc. shall be obtained, as applicable by project proponents from the respective competent authorities	Complied Fire safety certificate for operational Terminals attached was submitted as part of Six-monthly compliance report (October'21 to March'22) vide letter no. LIAL/EC/ENV/22-23/0866 dated 31 st May 2022.
vii.	The project proponent shall advertise in at least two local Newspapers widely circulated in the region, one of which shall be in the vernacular language informing that the project has been accorded Environmental Clearance and copies of clearance letters are available with the State Pollution Control Board and may also be seen on the website of the Ministry of Environment, Forest and Climate Change at http://www.envfor.nic.in . The advertisement shall be made within Seven days from the date	Complied Copy of EC is seen on MoEF&CC website http://environmentclearance.nic.in/writereaddata/Form-1A/EC/05 Jul 2017 191733980YFJ59F42ECLetter.pdf

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Lucknow International Airport Limited

From: April 2022

To: September 2022

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	of receipt of the Clearance letter and a copy of the same shall be forwarded to the Regional Office of this Ministry at Lucknow.	
viii.	Environmental clearance is subject to final order of the Hon'ble Supreme Court of India in the matter of Goa Foundation Vs. Union of India in Writ Petition (Civil) No.460 of 2004 as may be applicable to this project.	Noted
ix.	Any appeal against this Clearance shall lie with the National Environment Appellate Authority, if preferred, within a period of 30 days as prescribed under section 11 of the National Environment Appellate Act ,1997.	Not applicable
x.	A copy of the clearance letter shall be sent by the proponent to concerned Panchayat, Zilla Parishad/Municipal Corporation, Urban_ Local Body –and the Local NGO, if any, from whom suggestions/ representations, if any, were received while processing the proposal. The clearance letter shall also be put on the website of the company by the proponent.	Complied Copy of Environment clearance uploaded at Company website and can be seen through below link: https://www.adani.com/ccsia-lucknow-airport/downloads

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Status of the conditions stipulated in Environment Clearance

<p>xi.</p>	<p>The proponent shall upload the status of compliance of the stipulated EC conditions, including results of monitored data on their website and shall update the same periodically:- It shall simultaneously be sent to the Regional Office of MoEF, the respective Zonal Office of CPCB and the SPCB.- The criteria pollutant levels namely; SPM, RSPM, SO₂, NO_x (ambient levels as well as stack emissions) or critical sectoral parameters, indicated for the project shall be monitored and displayed at a convenient location near the main gate of the company in the public domain.</p>	<p>Complied.</p> <p>EC compliance uploaded at Company website and can be seen through below link: https://www.adani.com/ccsia-lucknow-airport/downloads</p> <p>Last Six-monthly Compliance Report for the period (October '21 –March'22) was submitted to Regional office of MoEFCC, CPCB Zonal office, SPCB vide dated 31.05.2022. (Email Copy Attached as Annexure-5).</p>
		<p>Environment display boards Was installed at the Airport Entry for information / awareness of public. Photographs of Display Board was submitted as part of Six monthly compliance report (October'21 to March'22) vide letter no. LIAL/EC/ENV/22-23/0866 dated 31st May 2022.</p>
<p>xii.</p>	<p>The project proponent shall also submit_ six monthly reports on the status of compliance of the stipulated EC conditions including results of monitored data (both in hard copies as well as by e-mail) to the respective Regional Office of MoEF, the respective Zonal Office of CPCB and the SPCB.</p>	<p>Complied</p> <p>Six-monthly Compliance Report for the period (October '21 –March'22) was submitted to Regional office of MoEFCC, CPCB Zonal office, SPCB vide dated 31.05.2022. (Email Copy Attached as Annexure-5).</p>
<p>xiii.</p>	<p>The environmental statement for each financial year ending 31st March in Form-V as is mandated to be submitted by the project proponent to the concerned State Pollution Control Board as prescribed under the Environment (Protection) Rules, 1986, as amended subsequently, shall also be put on the website of</p>	<p>Complied</p> <p>Environment statement for the FY 2021-22 submitted vide letter reference number LIAL/CAO/ES/22-23/1030 dated 29th September 2022. (Copy Attached as Annexure-6)</p>

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	<p>Lucknow International Airport Limited</p>	<p>From: April 2022 To: September 2022</p>
<p>Status of the conditions stipulated in Environment Clearance</p>		

	<p>the company along with the status of compliance of EC conditions and shall also be sent to the respective Regional Offices of MoEF by e-mail.</p>	<p>Environmental statement uploaded at Company website and can be seen through below link: https://www.adani.com/ccsia-lucknow-airport/downloads</p>
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Lucknow International Airport Limited

From: April 2022

To: September 2022

Status of the conditions stipulated in Environment Clearance

**Compliance Report of
Environmental Clearance
dtd. 26th Sept 2018
For Construction of New
Integrated Terminal Building
and allied facilities**

	Lucknow International Airport Limited	From: April 2022 To: September 2022
Status of the conditions stipulated in Environment Clearance		

Chaudhary Charan Singh International (CCSI) Airport, Lucknow has been granted Environmental Clearance vide letter no. 10-47/2017-IA-III, dated 26th Sept 2018 for "Construction of new Integrated terminal building and allied facilities", Lucknow, Uttar Pradesh.

The said EC has been transferred to Adani Lucknow International Airport (ALIAL) vide MoEF vide letter no. F.No.10-47/2017-IA.III dated 17th June 2021.

The Certificate of Incorporation consequent upon change of name from Adani Lucknow International Airport Limited (ALIAL) to Lucknow International Airport Limited has been issued by Ministry of Corporate Affairs vide dtd. 9th November 2021 and subsequently letter of change of name as Lucknow International Airport Limited has been granted by MoEF&CC vide letter no. F.No.21-43/2022-IA.III dated 2nd April 2022. Copy of the same attached was submitted as part of Six-monthly compliance report (October'21 to March'22) vide letter no. LIAL/EC/ENV/22-23/0866 dated 31st May 2022.

Lucknow



Lucknow International Airport Limited

From: April 2022

To: September 2022

Status of the conditions stipulated in Environment Clearance

Half yearly Compliance report for Environment Clearance for the project
"Construction of new Integrated terminal building and allied facilities"

Sr. No.	Conditions	Compliance Status as on 30 th September 2022
A. Specific Conditions		
1.	As proposed, Environmental Clearance is for Expansion of Lucknow Airport in respect of construction of new integrated terminal building and allied facilities at Guraura, Aurangabad Zagir and Bhaktikhera Villages, Lucknow District, Lucknow (U.P.) by M/s Lucknow Airport.	Noted
2.	Clearance from Directorate General of Civil Aviation (DGCA) and Airports Authority of India (AAI) for safety and project facilities shall be obtained.	Complied Aerodrome license for CCSIA, Lucknow, issued by DGCA attached was submitted as part of Six-monthly compliance report (October'21 to March'22) vide letter no. LIAL/EC/ENV/22-23/0866 dated 31 st May 2022.
3.	Consent to Establish/Operate for the project shall be obtained from the State Pollution Control Board as required under the Air (Prevention and Control of Pollution) Act, 1981 and the Water (Prevention and Control of Pollution) Act, 1974.	Complied Consent to Establish for construction of new integrated terminal building and allied facilities has been obtained vide letter dated 1st Feb 2019 bearing reference number 36083/UPPCB/Lucknow(UPPCBRO)/CTE /LUCKNOW/2018 also transfer of CTE has been obtained vide dated 21st Oct 2020. Copy of CtE and CtE transfer order was submitted as part of Six-monthly compliance report (October'21 to March'22) vide letter no. LIAL/EC/ENV/22-23/0866 dated 31 st May 2022.

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Lucknow International Airport Limited

From: April 2022

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4	The Construction site should be adequately barricaded before the construction begins.	Complied Adequate barricade arrangements have been done to keep the site isolated from surroundings. Photograph showing barricades are attached as Annexure 7.
5.	Notification GSR 94(E) dated 25.01.2018 of MoEF&CC regarding Mandatory Implementation of Dust Mitigation Measures for Construction and Demolition Activities shall be complied with.	Complied Compliance to the applicable points of MoEF&CC GSR 94(E) dated 25.01.2018 of MoEF&CC regarding Mandatory Implementation of Dust Mitigation Measures for Construction and Demolition Activities, is attached as Annexure 8.
6	No diversion of natural drainage shall be done without prior permission from irrigation department.	Complied The project site does not have exposure to natural drainage. Hence no diversion is envisaged.
7	Soil and other construction materials should be sprayed with water prior to any loading, unloading or transfer operation so as to maintain the dusty material wet.	Complied The compliance to the applicable points of MoEF&CC GSR 94(E) dated 25.01.2018, are stated under condition no 5. Fugitive dust emission due to transport movement is controlled by sprinkling of water at the site. Water is sprinkled in stockpiling activities like soil to keep it wet and control emission. Dust emissions at site are minimized by wheel washing, damping down and employing the use of covered vehicles for transportation of construction. Photographs showing Construction related Environment Management practices area attached as Annexure-9.

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Status of the conditions stipulated in Environment Clearance

8	<p>The soil/construction materials carried by the vehicle should be covered by impervious sheeting to ensure that the dusty materials do not leak from the vehicle.</p>	<p>Complied</p> <p>All the vehicles delivering materials to the site are covered using impervious sheet to avoid spillage of material/dust.</p> <p>Photographs showing Construction related Environment Management practices area attached as Annexure -9.</p>
9	<p>The excavation working area should be sprayed with water after operation so as to maintain the entire surface wet.</p>	<p>Complied</p> <p>Regular Water sprinkling is done to minimize the dust emission from the excavation, levelling, transportation and stockpiling activities.</p> <p>Photographs showing Construction related Environment Management practices area attached as Annexure 9.</p>
10	<p>Soil stockpile shall be managed in such a manner that dust emission and sediment runoff are minimized. Ensure that soil stockpiles are designed with no slope greater than 2:1 (horizontal/vertical). Top soil shall be separately stored and used in the development of green belt.</p>	<p>Complied</p> <p>Soil testing was carried out by reputed institute and it was observed that the Soil is not suitable for greenbelt and hence being used for filling low lying areas. Presently all the excavated soil placed at designated area in project premises. Soil Analysis Report was submitted as part of Six-monthly compliance report (October'21 to March'22) vide letter no. LIAL/EC/ENV/22-23/0866 dated 31st May 2022.</p> <p>Stock piles are properly designed at site to ensure that there is not sedimentation runoff.</p> <p>Photographs showing Construction related Environment Management practices area attached as Annexure 9.</p>
11	<p>A detailed drainage plan for rain water shall be drawn up and implemented.</p>	<p>Complied</p> <p>The detailed Rainwater harvesting plan has been designed and will be implemented. The rainwater system / drainage system consists of RCC drains,</p>

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Status of the conditions stipulated in Environment Clearance

		catch basins, piped drains for roof drainage and infiltration wells/ rainy wells at regular intervals for ground water recharging. A total of 35 infiltration wells of cylindrical shape with dimension of 4.5 m dia and 4.5 m effective depth are planned and is being implemented at the project site. The detailed ground water recharging plan has been prepared with the rainwater harvesting potential up to 114 ML/Year, which is being implemented. Plan showing Infiltration wells was submitted as part of Six-monthly compliance report (October'21 to March'22) vide letter no. LIAL/EC/ENV/22-23/0866 dated 31 st May 2022.
12	A drainage plan shall be drawn up and implemented to avoid flooding in low lying areas within the boundaries of the airport. The development of a water body within the premises or draining rain water to existing ponds outside the premises shall be examined to the satisfaction of the Central Ground Water Authority.	Complied A complete airport level drainage plan is prepared to address drainage issues both Airside & Cityside. Synopsis of Drainage plan was submitted as part of Six-monthly compliance report (October'21 to March'22) vide letter no. LIAL/EC/ENV/22-23/0866 dated 31 st May 2022.
13	Natural drains within the project boundaries shall not be diverted or blocked or altered in any way. Wherever storm water drains are proposed to be connected to natural drains the same shall be only undertaken after permission from the irrigation department.	Complied No Natural Drain within the project Boundaries shall be diverted or blocked or altered. Storm water drainage plan will be implemented, and Storm water drainage will be connected to natural drains after obtaining required permission from the concerned authority.
14	Ground water abstraction and rain water recharge shall be as may be prescribed by the CGWA. A clearance of the CGWA shall be obtained in this regards.	Complied Ground water NOC for 08 borewells from CGWA obtained vide NOC no. NOC013831, NOC049436, NOC011670, NOC022941, NOC025484, NOC047829,

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Status of the conditions stipulated in Environment Clearance

		NOC019832 and NOC046058 valid till 26.09.2026.
15	Noise from vehicles and power machinery and equipment on-site should not exceed the prescribed limit. Equipment should be regularly serviced. Attention should also be given to muffler maintenance and enclosure of noisy equipment's.	<p>Complied</p> <p>Construction specific Environment Management Plan has been deployed at site</p> <p>Adequate Noise control Measures has been implemented like</p> <ul style="list-style-type: none"> • Proper operation and maintenance of heavy equipment as well as transport vehicles is ensured to control noise emissions • Ear plugs, ear muffs are provided to workers handling high noise equipment / stone cutting operations to protect them from high noise exposure. <p>Environment Monitoring report covering Noise Monitoring near construction site for the period April 2022 to September 2022 is attached as Annexure -2</p>
16	Where construction activity is likely to cause noise nuisance to nearby residents, restrict operation hours between 7 am to 6 pm.	<p>Complied</p> <p>Regular Ambient Noise monitoring is being carried out near construction site and from the results, it is inferred that both day & night results are below Standards.</p> <p>Environment Monitoring report covering Noise Monitoring near construction site is attached as Annexure -2</p>
17	Solid inert waste found on construction sites consists of building rubble, demolition material, concrete; bricks, timber, plastic, glass, metals, bitumen etc shall be recycled/reused or disposed off as	<p>Complied</p> <p>Solid inert waste (Plastic, Glass, Metals etc) generated at construction sites are being handled through Lucknow Nagar Nigam.</p>

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Status of the conditions stipulated in Environment Clearance

	per Solid Waste Management Rules, 2016 and Construction and Demolition Waste Management Rules, 2016.	All Construction and Demolition Waste, generated at site are used for filling of low lying areas as per Construction and Demolition Waste Management Rules, 2016. Waste Management plan was submitted as part of Six-monthly compliance report (October'21 to March'22) vide letter no. LIAL/EC/ENV/22-23/0866 dated 31 st May 2022.
18	Diesel power generating sets proposed as source of backup power for elevators and common area illumination during operation phase should be of enclosed type and conform to rules made under the Environment (Protection) Act, 1986. The height of stack of DG sets should be equal to the height needed for the combined capacity of all proposed DG sets. Use of low sulphur diesel. The location of the DG sets may be decided with in consultation with State Pollution Control Board.	Noted for Compliance Presently the project is under Construction phase. However during operation phase, D.G. Sets are being provided in conformance to rules made under the Environment (Protection) Act, 1986 with adequate stack height and acoustic enclosure. Use of Low Sulphur Diesel will be ensured and permission for operation for D.G. set will be obtain before commissioning from UP pollution control Board.
19	Aircraft maintenance, sensitivity of the location where activities are undertaken, and control of runoff of potential contaminants, chemicals etc shall be properly implemented and reported.	Noted for compliance. Presently the project is under Construction phase. However, during operation phase, Spillage control plan shall be developed and implemented.
20	Proper drainage systems, emergency containment in the event of a major spill during monsoon season etc shall be provided.	Complied Spillage control plan has been developed and will be implemented. Secondary containment due to runoffs from fuel, oil and other material storage areas will not be mixed with the storm water lines and will be collected and treated before discharges. Spillage control plan was submitted as part of Six monthly compliance report (October'21 to March'22) vide letter no.

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Lucknow International Airport Limited

From: April 2022

To: September 2022

Status of the conditions stipulated in Environment Clearance

		LIAL/EC/ENV/22-23/0866 dated 31 st May 2022.
21	The runoff from paved structures like Runways, Taxiways, can be routed through drains to oil separation tanks and sedimentation basins before being discharged into rainwater harvesting structures.	Noted for compliance. Oil water separator shall be installed at apron discharge drain prior to merging with airport drain.
22	Storm water drains are to be built for discharging storm water from the air-field to avoid flooding/water logging in project area during monsoon season / cloud bursts.	Complied Same as condition no 12
23	Rain water harvesting for roof run-off and surface run-off, as plan submitted should be implemented. Before recharging the surface run off, pre-treatment must be done to remove suspended matter, oil and grease.	Complied Same as condition no 21
24	Total water requirement from ground water shall not exceed 1245 KLD. Groundwater shall only be extracted with prior permission from CGWA.	Complied Ground water NOC for 08 borewells from CGWA obtained vide NOC no. NOC013831, NOC049436, NOC011670, NOC022941, NOC025484, NOC047829, NOC019832 and NOC046058 valid till 26.09.2026.
25	Sewage Treatment Plant of 1950 KLD capacity based on MBBR Technology shall be provided to treat the wastewater generated from airport. Treated water will be reused for flushing, landscaping and HVAC cooling. As proposed the Airport will operate on zero liquid discharge principle.	Complied Sewage Treatment Plant of 1950 KLD capacity based on MBBR Technology is being constructed at site in 3 modules of capacity 650 KLD. Treated water will be reused for flushing, landscaping and HVAC cooling. As proposed the Airport will operate on zero liquid discharge principle. STP process, design drawing was submitted as part of Six-monthly compliance report (October'21 to

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Status of the conditions stipulated in Environment Clearance

		March'22) vide letter no. LIAL/EC/ENV/22-23/0866 dated 31 st May 2022.
26	The solid wastes shall be segregated as per the norms of the Solid Waste Management Rules, 2016. Recycling of wastes such as paper, glass (produced from terminals and aircraft caterers), metal (at aircraft maintenance site), plastics (from aircrafts, terminals and offices), wood, waste oil and solvents (from maintenance and engineering operations), kitchen wastes and vegetable oils (from caterers) shall be carried out.	<p>Complied</p> <p>As part of Construction phase, the solid wastes generated is segregated and managed by vendor authorized by Lucknow Nagar Nigam.</p> <p>Waste management Plan for construction phase, has been developed and is being implemented.</p> <p>Waste Management plan was submitted as part of Six-monthly compliance report (October'21 to March'22) vide letter no. LIAL/EC/ENV/22-23/0866 dated 31st May 2022.</p>
27	Continuous online air monitoring system shall be in place for expansion project.	<p>Being Complied</p> <p>CAAQMS will be installed with in a period of Six Month.</p>
28	Acoustic enclosures for DG sets, noise barriers for ground-run bays, ear plugs for operating personnel shall be implemented as mitigation measures for noise impact due to ground sources.	<p>Complied</p> <p>D.G. Sets are being installed with Acoustic Enclosure, Operating person are provided with ear muffs.</p>
29	During airport operation period, noise should be controlled to ensure that it does not exceed the prescribed standards. During night time the noise levels measured at the boundary of the building shall be restricted to the permissible levels to comply with the prevalent regulations. A monitoring station for ambient air and noise levels shall be provided in the village nearest to the airport.	<p>Noted for Compliance.</p> <p>Presently the project is under Construction phase.</p>
30	An automatic ambient air quality monitoring station shall be provided, within the premises, to the satisfaction of the State Pollution	<p>Being Complied</p> <p>CAAQMS will be installed within a period of Six Month.</p>

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Status of the conditions stipulated in Environment Clearance

	Control Board and the data transferred to the Board.	
31	It shall be ensured that no part of the project causes any infringement on the rights of people dwelling in the surrounding areas.	<p>Complied</p> <p>Project is being developed as per applicable laws including Aviation rules and guidelines.</p>
32	Traffic congestion near the entry and exit points from the roads adjoining the Airport shall be avoided. Parking should be fully internalized and no public space should be utilized. The number of vehicles allowed in the area shall in no case exceed the parking facilities provided. The number of vehicles on roads within the premises shall not in any case exceed the numbers prescribed for class 'A' level of service by the Ministry of Road Transport.	<p>Complied</p> <p>Traffic Management plan has been prepared to overcome the problem of Traffic congestion near the entry and exit points from the roads adjoining.</p> <p>Traffic Management plan covering existing and New Integrated Terminal Building was submitted as part of Six-monthly compliance report (October'21 to March'22) vide letter no. LIAL/EC/ENV/22-23/0866 dated 31st May 2022.</p> <p>Multi-level Car parking having capacity for 1500 Nos of Cars and 10 nos. of Buses are being provided with in the Airport premises.</p>
33	Traffic Management Study and Mitigation measures as given in the EIA Report shall be implemented in letter and spirit. Apart, the project proponents will examine the current augmentation of road infrastructure and prepare and implement a traffic management plan to the satisfaction of the competent authority for decongesting the approach to the Airport.	<p>Noted for compliance</p> <p>Traffic related measures are being implemented for vehicles during construction phase.</p> <p>The mitigation measures as mentioned in EIA Report are being implemented in Operation phase also.</p> <p>Traffic Management plan covering existing and New Integrated terminal Building was submitted as part of Six-monthly compliance report (October'21 to March'22) vide letter no. LIAL/EC/ENV/22-23/0866 dated 31st May 2022.</p>

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Status of the conditions stipulated in Environment Clearance

<p>34</p>	<p>Energy conservation measures like installation of LED/CFLs/TFLs for the lighting the areas outside the building should be integral part of the project design and should be in place before project commissioning. Used CFLs and TFLs should be properly collected and disposed off/sent for recycling as per the prevailing guidelines/ rules of the regulatory authority to avoid mercury contamination.</p>	<p>Complied Following Energy Conservation measures are being incorporated in proposed terminal building:</p> <ol style="list-style-type: none"> 1. High performance Insulating roof with system Insulation Property value of 0.27 w/m2 k. reducing the heat load. 2. High performance insulating glass façade with Insulation Property value of less than 1.70 w/m2 k. 3. Skylights for daylighting in departures. 4. LED lighting fixtures with sensors. 5. On site renewable power generation using rooftop solar panels. 6. High efficiency pumps and motors. 7. Construction of New Integrated Terminal Building at CCS international airport is registered with GRIHA for 4 Star rating and GRIHA Registered Project Code - 17GR0124.
<p>35</p>	<p>An onsite disaster management plan shall be drawn up to account for risks and accidents. This onsite plan shall be dovetailed with the onsite management plan for the district.</p>	<p>Noted for compliance For existing operation, Disaster Management Plan/Aerodrome Emergency Plan is available and has been implemented and copy of the same has been submitted as part of Six-monthly compliance report (October'21 to March'22) vide letter no. LIAL/EC/ENV/22-23/0866 dated 31st May 2022.</p>

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Status of the conditions stipulated in Environment Clearance

36	As proposed, no tree shall be felled/transplant. The landscape planning should include plantation of native species. The plantation species should be carefully chosen to avoid bird nesting and to improve pollution control and noise control measures. Water intensive and/or invasive species should not be used for landscaping. As proposed, 23.42 Ha area shall be provided for landscaping and green belt development.	<p>Noted for Compliance</p> <p>Green cover will be developed over a proposed area of 23.42 Hectare.</p> <p>Green Cover plan was submitted as part of Six-monthly compliance report (October'21 to March'22) vide letter no. LIAL/EC/ENV/22-23/0866 dated 31st May 2022.</p>
37	It shall be ensured that all open spaces in the project boundary are totally greened/ or tiled by perforated tiles to bind soil and ensure that dust emissions are minimized. This should, apart from other measures, form an integral part of the plan which you will draw up and implement for control of particulate dust pollution.	<p>Complied</p> <p>Presently project boundary is barricade with wind breaks to avoid dust emission outside the project boundaries, regular water sprinklers deployed to reduce the fugitive emission etc. At the time of project development, available open spaces in the project boundary will be either landscaped or will be laid with perforated tiles to avoid dust emissions.</p> <p>Photographs showing Construction related Environment Management practices area attached as Annexure 9.</p>
38	A water security plan to the satisfaction of the CGWA shall be drawn up to include augmenting water supply and sanitation facilities and recharge of ground water in at least two villages and schools, as part of the C.S.R. activities.	<p>Noted for Compliance</p> <p>CSR works will be carried out inline to the applicability of Section 135 of the Companies Act, 2013.</p>
39	The company shall draw up and implement a corporate social Responsibility plan as per the Company's Act of 2013.	<p>Noted for Compliance</p> <p>CSR works will be carried out inline to the applicability of Section 135 of the Companies Act, 2013.</p>
40	As per the Ministry's Office Memorandum F.No. 22-65/2017-IA.III dated 1 st May 2018, and proposed by	<p>Noted for Compliance</p>

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Lucknow International Airport Limited

From: April 2022

To: September 2022

Status of the conditions stipulated in Environment Clearance

	<p>the project proponent, an amount of Rs. 3.46 Crores (@0.25% of project Cost) shall be earmarked under Corporate Environment Responsibility (CER) for the activities such as infrastructure creation for drinking water supply, sanitation, health, education, electrification including solar power, rain water harvesting, soil moisture conservation works, avenue plantation, plantation in community land. The activities proposed under CER shall be restricted to the affected area around the project. The entire activities proposed under the CER shall be treated as project and shall be monitored. The monitoring report shall be submitted to the regional office as a part of half yearly compliance report, and to the District Collector. It should be posted on the website of the project proponent.</p>	<p>CER funds is being allocated based on the year's financial budget, and accordingly CER activities will be planned and implemented in consultation with local administration.</p> <p>LIAL has submitted letter to District Magistrate for approval of activities to be cover surrounding the project site as a part of CER and permission from DM office received on dated 25.4.2022 to spend Rs. 90 lakh in FY 2022-2023. Same is under process of implementation.</p> <p>Copy of letter and CER plan proposed for FY 22-23 was submitted as part of Six-monthly compliance report (October'21 to March'22) vide letter no. LIAL/EC/ENV/22-23/0866 dated 31st May 2022.</p>
B. GENERAL CONDITIONS		
1	<p>A copy of the environmental clearance letter shall also be displayed on the website of the concerned State Pollution Control Board. The EC letter shall also be displayed at the Regional Office, District Industries centre and Collector's Office/ Tehsildar's office for 30 days.</p>	<p>Not applicable</p>
2	<p>The funds earmarked for environmental protection measures shall be kept in separate account and shall not be diverted for other purpose. Year-wise expenditure shall be reported to this Ministry and its concerned Regional Office.</p>	<p>Complied</p> <p>Presently the project is under construction phase.</p> <p>The funds for environmental protection measures will be kept in a separate account head and year wise expenditure and utilization report will be provide during operation phase.</p>

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Lucknow International Airport Limited

From: April 2022

To: September 2022

Status of the conditions stipulated in Environment Clearance

		However, expense incurred as part of construction phase EMP for the period April'22 to September'22 is around Rs. 76.6 Lakhs.
3	Officials from the Regional Office of MoEF&CC, Lucknow who would be monitoring the implementation of environmental safeguards should be given full cooperation, facilities and documents/data by the project proponents during their inspection. A complete set of all the documents submitted to MoEF&CC shall be forwarded to the APCCF, Regional Office of MoEF&CC, Lucknow.	Complied IRO, MoEF&CC, Lucknow inspected CCSIA on 14 th September 2022 and full support and required documents was provided during the visit.
4	In the case of any change(s) in the scope of the project, the project would require a fresh appraisal by this Ministry.	Noted for compliance
5	The Ministry reserves the right to add additional safeguard measures subsequently, if found necessary, and to take action including revoking of the environment clearance under the provisions of the Environmental (Protection) Act, 1986, to ensure effective implementation of the suggested safeguard measures in a time bound and satisfactory manner.	Noted for compliance
6	All other statutory clearances such as the approvals for storage of diesel from Chief Controller of Explosives, Fire Department, Civil Aviation Department, the Forest Conservation Act, 1980 and the Wildlife (Protection) Act, 1972 etc. shall be obtained, as applicable by project proponents from the respective competent authorities.	Complied Provisional Fire N.O.C. was submitted as part of Six-monthly compliance report (October'21 to March'22) vide letter no. LIAL/EC/ENV/22-23/0866 dated 31 st May 2022. Approvals as required during operational phase will be taken from the concerned authorities.

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Status of the conditions stipulated in Environment Clearance

7	<p>These stipulations would be enforced among others under the provisions of the Water (Prevention and Control of Pollution) Act, 1974, the Air (Prevention and Control of Pollution) Act 1981, the Environment (Protection) Act, 1986, the Public Liability (Insurance) Act, 1991 and the EIA Notification, 2006.</p>	<p>Noted for compliance</p>
8	<p>The project proponent shall advertise in at least two local Newspapers widely circulated in the region, one of which shall be in the vernacular language informing that the project has been accorded Environmental Clearance and copies of clearance letters are available with the State Pollution Control Board and may also be seen on the website of the Ministry of Environment, Forest and Climate Change at http://www.envfor.nic.in. The advertisement shall be made within Seven days from the date of receipt of the Clearance letter and a copy of the same shall be forwarded to the Regional Office of this Ministry at Lucknow.</p>	<p>Noted & Complied</p> <p>Copy of EC is seen on MoEF&CC website http://environmentclearance.nic.in/onlineearchnewrk.aspx?autoid=10992&proposal_no=IA/UP/MIS/65954/2017&typep=EC</p>
9	<p>Any appeal against this clearance shall lie with the National Green Tribunal, if preferred, within a period of 30 days as prescribed under Section 16 of the National Green Tribunal Act, 2010.</p>	<p>Not applicable</p>
10	<p>A copy of the clearance letter shall be sent by the proponent to concerned Panchayat, Zilla Parisad/Municipal Corporation, Urban Local Body and the Local NGO, if any, from whom suggestions/ representations, if any, were received while processing the proposal. The clearance letter shall also be put on the website of the company by the proponent.</p>	<p>Complied</p> <p>Copy of EC is seen on MoEF&CC website http://environmentclearance.nic.in/onlineearchnewrk.aspx?autoid=10992&proposal_no=IA/UP/MIS/65954/2017&typep=EC</p> <p>Copy of Environment Clearance uploaded at Company website and can be seen through below link: https://www.adani.com/ccsia-lucknow-airport/downloads</p>

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Status of the conditions stipulated in Environment Clearance

11	<p>The proponent shall upload the status of compliance of the stipulated EC conditions, including results of monitored data on their website and shall update the same periodically. It shall simultaneously be sent to the Regional Office of MoEF&CC, the respective Zonal Office of CPCB and the SPCB. The criteria pollutant levels namely; SPM, RSPM, SO₂, NO_x (ambient levels as well as stack emissions) or critical sectoral parameters, indicated for the project shall be monitored and displayed at a convenient location near the main gate of the company in the public domain.</p>	<p>Complied.</p> <p>Last Six-monthly Compliance Report for the period (April 2022- September 2022) was submitted to Regional office of MoEF&CC, CPCB Zonal office, SPCB vide dated 31st May 2022. (Email Copy Attached as Annexure-5) and same has been uploaded on company website and can be seen from through below link: https://www.adani.com/ccsia-lucknow-airport/downloads</p> <p>Environment display boards Was installed at the Airport Entry for information / awareness of public. Photographs of Display Board was submitted as part of Six-monthly compliance report (October'21 to March'22) vide letter no. LIAL/EC/ENV/22-23/0866 dated 31st May 2022.</p>
12	<p>The environmental statement for each financial year ending 31st March in Form-V as is mandated to be submitted by the project proponent to the concerned State Pollution Control Board as prescribed under the Environment (Protection) Rules, 1986, as amended subsequently, shall also be put on the website of the company along with the status of compliance of EC conditions and shall also be sent to the respective Regional Offices of MoEF&CC by e-mail.</p>	<p>Complied</p> <p>Environment statement for the FY 2021-22 submitted vide letter reference number LIAL/CAO/ES/22-23/1030 dated 29th September 2022. (Copy Attached as Annexure-6) and same has been uploaded on Company website and can be seen through below link: https://www.adani.com/ccsia-lucknow-airport/downloads</p>

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ANNEXURE - 1



Lucknow International Airport Limited

From : April'2022

To : Sept'2022

Annexure 1 – DG set with acoustic Enclosure



ANNEXURE - 2

April-2022

Environmental Monitoring Test Reports



Project Proponent:

M/s. Lucknow International Airport Limited,
(CHAUDHARY CHARAN SINGH INTERNATIONAL AIRPORT),
Amausi, Lucknow, Uttar Pradesh 226009

Consultant:



VIMTA LABS LIMITED,
142,IDA, PHASE-II,CHERLAPALLY,
HYDERABAD-500051,TELANGANA STATE
www.vimta.com.www.env@vimta.com

ISSUED TO:

**M/S.LUCKNOW INTERNATIONAL AIRPORT LIMITED.,
(CHAUDHARY CHARAN SINGH INTERNATIONAL
AIRPORT),
AMAUSI, LUCKNOW,
UTTARPRADESH-226009**

Report Number : VLL/VLS/22/01177/001
Issued Date : 2022.05.08
P. Order Ref : 5700301505
P.O. Date : 20.10.2021

Page 1 of 1

**SAMPLE PARTICULARS : AMBIENT AIR QUALITY MONITORING
TOP OF THE FIRE STATION-AIRSIDE**

Frequency Of Sampling	: Weekly Twice
Time Weighted Average	: 24 Hours
Sampling & Analysis Method	: PM10 - IS:5182 P-23; PM2.5-IS:5182P-24; SO2 - IS:5182 P2; and NO2 - IS:5182 P-6
Month of Monitoring	: April 2022
Test Required	: PM ₁₀ , PM _{2.5} , SO ₂ , NO ₂ and CO
Sample collected by Vimta labs ltd	

TEST REPORT

Location Code:AAQ-1	RESULTS (µg/m ³)				
	Particulates Matter as PM _{2.5}	Particulates Matter as PM ₁₀	Sulphur Dioxide as SO ₂	Nitrogen Dioxide as NO ₂	CO Carbon Monoxide
04.04.2022	32.5	65.7	18.3	20.7	0.461
06.04.2022	30.2	63.4	16.4	23.7	0.460
11.04.2022	28.4	68.3	15.8	19.5	0.451
13.04.2022	31.6	63.1	17.4	23.6	0.448
18.04.2022	34.2	58.5	19.2	21.4	0.492
20.04.2022	29.1	62.1	16.7	19.8	0.473
25.04.2022	32.3	66.7	18.0	20.4	0.435
27.04.2022	30.6	63.1	17.0	18.4	0.458
Minimum	28.4	58.5	15.8	18.4	0.435
Maximum	34.2	68.3	19.2	23.7	0.492
Mean	31.1	63.9	17.4	20.9	0.460
98%ile	34.0	68.1	19.1	23.7	0.489
NAAQ Standard	60	100	80	80	2

- All the above values are expressed in µg/m³ except CO is mg/m³



**Dr. SubbaReddy Mallampati
Group Leader-Environment**

ISSUED TO:

**M/S.LUCKNOW INTERNATIONAL AIRPORT LIMITED.,
(CHAUDHARY CHARAN SINGH INTERNATIONAL
AIRPORT),
AMAUSI, LUCKNOW,
UTTARPRADESH-226009**

Report Number : VLL/VLS/22/01177/002
Issued Date : 2022.05.08
P. Order Ref : 5700301505
P.O. Date : 20.10.2021

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**SAMPLE PARTICULARS : AMBIENT AIR QUALITY MONITORING
TOP OF SCADA BUILDING**

Frequency Of Sampling	: Weekly Twice
Time Weighted Average	: 24 Hours
Sampling & Analysis Method	: PM10 - IS:5182 P-23; PM2.5 - IS:5182P-24; SO2 - IS:5182 P2; and NO2 - IS:5182 P-6
Month of Monitoring	: April 2022
Test Required	: PM ₁₀ , PM _{2.5} , SO ₂ , NO ₂ and CO
Sample collected by Vimta labs ltd	

TEST REPORT

Location Code:AAQ-2	RESULTS (µg/m ³)				
	Particulates Matter as PM _{2.5}	Particulates Matter as PM ₁₀	Sulphur Dioxide as SO ₂	Nitrogen Dioxide as NO ₂	CO Carbon Monoxide
04.04.2022	30.1	57.3	17.2	19.3	0.452
06.04.2022	27.2	62.5	18.3	20.5	0.437
11.04.2022	30.6	63.2	17.2	19.4	0.416
13.04.2022	28.4	61.2	16.5	18.5	0.426
18.04.2022	27.5	63.4	18.2	20.4	0.448
20.04.2022	29.0	58.3	16.4	18.8	0.444
25.04.2022	31.5	60.8	15.8	19.7	0.432
27.04.2022	28.4	62.2	17.6	20.5	0.423
Minimum	27.2	57.3	15.8	18.5	0.416
Maximum	31.5	63.4	18.3	20.5	0.452
Mean	29.1	61.1	17.2	19.6	0.435
98%ile	31.4	63.4	18.3	20.5	0.451
NAAQ Standard	60	100	80	80	2

- All the above values are expressed in µg/m³ except CO is mg/m³



**Dr. SubbaReddy Mallampati
Group Leader-Environment**

Vimta Labs Limited

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ISSUED TO:

**M/S.LUCKNOW INTERNATIONAL AIRPORT LIMITED.,
 (CHAUDHARY CHARAN SINGH INTERNATIONAL
 AIRPORT),
 AMAUSI, LUCKNOW,
 UTTARPRADESH-226009**

Report Number : VLL/VLS/22/01177/003
 Issued Date : 2022.05.08
 P. Order Ref : 5700301505
 P.O. Date : 20.10.2021

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**SAMPLE PARTICULARS : AMBIENT AIR QUALITY MONITORING
 NEAR TERMINAL-1 BUILDING**

Frequency Of Sampling	: Weekly Twice
Time Weighted Average	: 24 Hours
Sampling & Analysis Method	: PM10 - IS:5182 P-23; PM2.5 - IS:5182P-24; SO ₂ - IS:5182 P2; and NO ₂ - IS:5182 P-6
Month of Monitoring	: April 2022
Test Required	: PM ₁₀ , PM _{2.5} , SO ₂ , NO ₂ and CO,
Sample collected by Vimta labs ltd	

TEST REPORT

Location Code:AAQ-3	RESULTS($\mu\text{g}/\text{m}^3$)				
	Particulates Matter as PM _{2.5}	Particulates Matter as PM ₁₀	Sulphur Dioxide as SO ₂	Nitrogen Dioxide as NO ₂	CO Carbon Monoxide
04.04.2022	29.1	55.6	15.4	17.3	0.493
06.04.2022	26.6	56.4	16.8	18.3	0.481
11.04.2022	25.4	59.3	18.9	20.4	0.495
13.04.2022	27.3	58.1	17.3	18.3	0.473
18.04.2022	28.2	62.4	17.9	19.3	0.463
20.04.2022	25.3	55.9	15.8	17.6	0.469
25.04.2022	28.6	59.6	17.1	16.6	0.487
27.04.2022	28.3	61.5	18.3	20.4	0.478
Minimum	25.3	55.6	15.4	16.6	0.463
Maximum	29.1	62.4	18.9	20.4	0.495
Mean	27.4	58.6	17.2	18.5	0.480
98%ile	29.0	62.3	18.8	20.4	0.495
NAAQ Standard	60	100	80	80	2

- All the above values are expressed in $\mu\text{g}/\text{m}^3$ except CO is mg/m^3



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ISSUED TO:

**M/S.LUCKNOW INTERNATIONAL AIRPORT LIMITED.,
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AMAUSI, LUCKNOW,
UTTARPRADESH-226009**

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**SAMPLE PARTICULARS : AMBIENT AIR QUALITY MONITORING
PROJECT OFFICE**

Frequency Of Sampling : Weekly Twice
Time Weighted Average : 24 Hours
Sampling & Analysis Method : PM10-IS:5182 P-23; and PM2.5-IS:5182P-24
Month of Monitoring : April 2022
Test Required : PM₁₀, PM_{2.5}, SO₂, NO₂ and CO
Sample collected by Vimta labs ltd

TEST REPORT

Location Code:AAQ-4	RESULTS (µg/m ³)				
Date of Sampling	Particulates Matter as PM _{2.5}	Particulates Matter as PM ₁₀	Sulphur Dioxide as SO ₂	Nitrogen Dioxide as NO ₂	CO Carbon Monoxide
04.04.2022	30.8	64.2	17.0	19.8	0.377
06.04.2022	26.6	60.1	15.6	18.3	0.447
11.04.2022	31.2	55.7	17.2	21.5	0.405
13.04.2022	27.4	60.2	17.5	20.6	0.457
18.04.2022	30.4	57.2	16.7	19.5	0.391
20.04.2022	26.7	62.4	15.4	17.3	0.481
25.04.2022	29.4	57.3	17.5	20.4	0.413
27.04.2022	31.6	59.2	16.2	18.1	0.404
Minimum	26.6	55.7	15.4	17.3	0.377
Maximum	31.6	64.2	17.5	21.5	0.481
Mean	29.3	59.5	16.6	19.4	0.422
98%ile	31.5	63.9	17.5	21.4	0.478
NAAQ Standard	60	100	80	80	2

- All the above values are expressed in µg/m³ except CO is mg/m³



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**SAMPLE PARTICULARS : AMBIENT AIR QUALITY MONITORING
RAHIMABAD**

Frequency Of Sampling	: Weekly Twice
Time Weighted Average	: 24 Hours
Sampling & Analysis Method	: PM10-IS:5182 P-23; and PM2.5-IS:5182P-24
Month of Monitoring	: April 2022
Test Required	: PM ₁₀ , PM _{2.5} , SO ₂ , NO ₂ and CO
Sample collected by	Vimta labs ltd

TEST REPORT

Location Code:AAQ-5	RESULTS (µg/m ³)				
	Particulates Matter as PM _{2.5}	Particulates Matter as PM ₁₀	Sulphur Dioxide as SO ₂	Nitrogen Dioxide as NO ₂	CO Carbon Monoxide
04.04.2022	33.0	60.2	15.3	18.6	0.448
06.04.2022	30.2	58.1	14.7	16.5	0.356
11.04.2022	27.5	63.5	16.4	17.5	0.402
13.04.2022	31.6	61.5	17.7	20.4	0.416
18.04.2022	33.6	58.4	15.9	17.4	0.440
20.04.2022	34.5	61.4	14.8	18.4	0.352
25.04.2022	29.3	66.3	17.3	22.8	0.435
27.04.2022	32.9	59.3	15.9	20.7	0.404
Minimum	27.5	58.1	14.7	16.5	0.352
Maximum	34.5	66.3	17.7	22.8	0.448
Mean	31.6	61.1	16.0	19.0	0.407
98%ile	34.4	65.9	17.6	22.5	0.447
NAAQ Standard	60	100	80	80	2

- All the above values are expressed in µg/m³ except CO is mg/m³



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**SAMPLE PARTICULARS : AMBIENT AIR QUALITY MONITORING
NADARGANJ**

Frequency Of Sampling : Weekly Twice
Time Weighted Average : 24 Hours
Sampling & Analysis Method : PM10-IS:5182 P-23; and PM2.5-IS:5182P-24
Month of Monitoring : **April 2022**
Test Required : PM₁₀, PM_{2.5}, SO₂, NO₂ and CO
Sample collected by Vimta labs ltd

TEST REPORT

Location Code:AAQ-6	RESULTS (µg/m ³)				
	Particulates Matter as PM _{2.5}	Particulates Matter as PM ₁₀	Sulphur Dioxide as SO ₂	Nitrogen Dioxide as NO ₂	CO Carbon Monoxide
04.04.2022	30.2	64.9	15.7	18.3	0.425
06.04.2022	29.3	56.9	14.9	19.3	0.402
11.04.2022	31.4	59.3	16.3	18.7	0.395
13.04.2022	30.8	63.6	14.6	19.4	0.411
18.04.2022	28.4	58.3	16.9	18.6	0.407
20.04.2022	29.2	64.6	15.4	17.4	0.424
25.04.2022	25.6	57.2	14.6	16.7	0.467
27.04.2022	30.2	67.4	15.4	14.5	0.352
Miuimum	25.6	56.9	14.6	14.5	0.352
Maximum	31.4	67.4	16.9	19.4	0.467
Mean	29.4	61.5	15.5	17.9	0.410
98%le	31.3	67.1	16.8	19.4	0.461
NAAQ Standard					

- All the above values are expressed in µg/m³ except CO is mg/m³

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SAMPLE PARTICULARS : AMBIENT NOISE LEVEL MONITORING

Frequency Of Sampling : Monthly Once in Each Location
Time Weighted Average : 24 Hours
Method of Analysis : IS:9989
Month of Monitoring : April 2022
Test Required : L-Day and L-Night
Sample collected by Vimta labs ltd

TEST REPORT

Sr.No	Name of the Location	Date of Monitoring	L-day	L-night
			dB(A)	
1	Top of the Fire Station (Air Side)	11.04.2022	68.1	62.5
2	Top of SCADA Building	06.04.2022	62.4	59.3
3	Near Terminal-1 Building	04.04.2022	65.3	61.7
4	Project office	13.04.2022	62.4	54.9
5	Rahimabad	20.04.2022	58.4	50.5
6	Nadarganj	18.04.2022	55.6	48.5
Noise Standards for Airport Zone			70.0	65.0



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SAMPLE PARTICULARS : STP WATER

Frequency Of Sampling : One Grab sample in a Month
Month of Sampling : April 2022
Quantity Collected for Analysis : 5 Liter
Type of Container used for sampling : HDPE Plastic Container-3 L
Amberlite Glass Container-2 L
Test Required : pH; Total Suspended Solids; Total Dissolved Solids; Total Nitrogen; Chemical
Oxygen Demand; Biological Oxygen Demand; Oil and Grease; and Ammonical
Nitroge, Residual Chlorine and Fecal Coliform.
Sample Collected On : 08.04.2022
Analysis Start Date : 11.04.2022
Analysis Completion Date : 20.04.2022
Sample collected by Vimta Labs Ltd.,

TEST REPORT

Sr.No	Parameters	Method Adopted	UoM	STP Inlet Water	STP Outlet Water	CPCB Standard	Limits as per G.S.R. 1265(E)
1	pH	IS:3025 P-11	--	7.43	7.65	5.5 - 9.0	6.5 - 9.0
2	Total Suspended Solids	IS:3025 P-17	mg/L	221	26	100	< 50
3	Total Dissolved Solids	IS:3025 P-16	mg/L	352	312	2100	--
4	Total Nitrogen	APHA 4500-B	mg/L	9.4	3.5	10	--
5	Chemical Oxygen Demand	APHA 5220B	mg/L	323	52	250	--
6	Biological Oxygen Demand at 27°C, 3 days	IS:3025 P-44	mg/L	92	13	30	< 20
7	Oil and Grease	APHA 5520-C	mg/L	4.5	<1.0	10	--
8	Ammonical Nitrogen	APHA 4500-F	mg/L	3.3	<0.1	5	--
9	Residual Chlorine	IS:3025 P-26	mg/L	<0.1	<0.1	-	-
10	Fecal Coliform	EPA Method 1681: 2006	MPN/100ml	231	<1.8	<100	<1000

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SAMPLE PARTICULARS : Drinking Water

Frequency Of Sampling	: One Grab sample in a Quarter
Month of Sampling	: April 2022
Quantity Collected for Analysis	: 5 Liter
Type of Container used for sampling	: HDPE Plastic Container-3 L Amberlite Glass Container-2 L
Test Required	: As per IS 10500:2012
Sample Collected On	: 15.04.2022
Analysis Start Date	: 18.04.2022
Analysis Completion Date	: 26.04.2022
Sample collected by	: Vimta Labs Ltd.,

TEST REPORT

Sr.No	Parameter	UoM	Method of Testing	Terminal-1 DW1	Terminal-2 DW2	ATC building DW3	Limits as per IS 10500 : 2012
1	pH	-	IS 3025 (Part-11)	7.33	7.58	7.61	6.5 – 8.5 (NR)
2	Colour	Hazen	IS:3025 (Part 4):1983	Colourless	Colourless	Colourless	5(15)
3	Taste	-	IS 3025 (Part 7 & 8):	Agreeable	Agreeable	Agreeable	Agreeable
4	Odour	-	IS 3025 (Part 5)	Agreeable	Agreeable	Agreeable	Agreeable
5	Conductivity	µS/cm	APHA 23 rd (2510B)	215	305	274	\$
6	Turbidity	NTU	IS 3025 (Part 10)	<1	<1	<1	1(5)
7	TDS	mg/l	IS 3025 (Part 16)	134	199	173	500(2000)
8	Total Hardness (as CaCO ₃)	mg/l	IS 3025 (Part-21)	82.9	131.5	104.7	200(600)
9	Total Alkalinity as CaCO ₃	mg/l	IS 3025 (Part-23)	54.3	76.0	64.7	200(600)
10	Calcium (as Ca)	mg/l	IS 3025 (part-40)	18.0	32.2	23.1	75(200)
11	Magnesium (as Mg)	mg/l	IS 3025 (Part-46)	9.2	12.4	11.4	30(100)
12	Free residual Chlorine	mg/l	IS:3025 (Part 26, 1.2)	<0.1	<0.1	<0.1	0.2(1)
13	Boron (as B)	mg/l	IS:13428:2005	0.01	0.01	<0.01	0.5(1)
14	Chlorides (as Cl)	mg/l	IS 3025 (Part 32)	26.0	33.8	31.5	250(1000)
15	Sulphates (as SO ₄)	mg/l	IS 3025 (part-24)	12.6	22.4	19.6	200(400)
16	Fluorides (as F)	mg/l	APHA 23 rd (4500)	0.1	0.3	0.2	1.0(1.5)

Note: \$ - Limits not specified;

NR - No Relaxation

Limits are shown in IS 10500 are Acceptable limits (Requirement) and in parenthesis are
Permissible limit in absence of alternate Source



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P.O. Date : 20.10.2021

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SAMPLE PARTICULARS : Drinking Water

TEST REPORT

Sr.No	Parameter	UoM	Method of Testing	Terminal-1 DW1	Terminal-2 DW2	ATC building DW3	Limits as per IS 10500 : 2012
17	Nitrates (as NO ₃)	mg/l	APHA 23 rd (4500)	3.2	5.3	7.2	45(NR)
18	Sodium as Na	mg/l	APHA 23 rd (3500 Na)	10.0	8.6	13.4	\$
19	Potassium as K	mg/l	APHA 23 rd (3500 K)	2.2	1.7	2.1	\$
20	Phenolic Compounds	mg/l	IS:3025 (Part 43)	<0.001	<0.001	<0.001	0.001(0.002)
21	Cyanides(as CN)	mg/l	IS:3025 (Part 27,3)	<0.02	<0.02	<0.02	0.05 (NR)
22	Anionic Detergents	mg/l	IS:13428:2005	<0.02	<0.02	<0.02	0.2 (1.0)
23	Mineral Oil	mg/l	IS 3025 (Part 39):	<0.01	<0.01	<0.01	0.5 (NR)
24	Cadmium (as Cd)	mg/l	APHA 23 rd 3125	<0.003	<0.003	<0.003	0.003 (NR)
25	Total Arsenic (as As)	mg/l	APHA 23 rd 3125	<0.01	<0.01	<0.01	0.01 (0.05)
26	Copper (as Cu)	mg/l	IS:3025 Part 2:2004	<0.01	<0.01	<0.01	0.05 (1.5)
27	Lead (as Pb)	mg/l	APHA 23 rd 3125	<0.01	<0.01	<0.01	0.01 (NR)
28	Manganese (as Mn)	mg/l	APHA 23 rd 3125	<0.01	<0.01	<0.01	0.1 (0.3)
29	Iron (as Fe)	mg/l	APHA 23 rd 3125	0.02	0.03	0.01	0.3(NR)
30	Total Chromium (as Cr)	mg/l	APHA 23 rd 3125	<0.01	<0.01	<0.01	0.05(NR)
31	Selenium (as Se)	mg/l	IS:15303:2003	<0.01	<0.01	<0.01	0.01(NR)
32	Zinc (as Zn)	mg/l	IS:3025 Part 2:2004	0.04	0.03	0.07	5(15)
33	Aluminum (as Al)	mg/l	IS:3025 (Part 55)	<0.001	<0.001	<0.001	0.03(0.2)
34	Mercury (as Hg)	mg/l	APHA 23 rd 3125	<0.001	<0.001	<0.001	0.001(NR)
35	Pesticides	µg/l	APHA 23 rd	Absent	Absent	Absent	Absent
36	E. Coil	-	IS 15185:: 2016	Absent	Absent	Absent	Absent
37	Total Coliforms	MPN/100	IS:15185:2016	Absent	Absent	Absent	10

Note: \$ - Limits not specified;

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SAMPLE PARTICULARS : Drinking Water

Frequency Of Sampling : One Grab sample in a Quarter
Month of Sampling : **April 2022**
Quantity Collected for Analysis : 5 Liter
Type of Container used for sampling : HDPE Plastic Container-3 L
Amberlite Glass Container-2 L
Test Required : As per IS 10500:2012
Sample Collected On : 15.04.2022
Analysis Start Date : 18.04.2022
Analysis Completion Date : 26.04.2022
Sample collected by Vimta Labs Ltd.,

TEST REPORT

Sr.No	Parameter	UoM	Method of Testing	DGCA building DW4	Project Office DW5	Admin Office DW6	Limits as per IS 10500 : 2012
1	pH	-	IS 3025 (Part-11)	7.72	7.58	7.39	6.5 – 8.5 (NR)
2	Colour	Hazen	IS:3025 (Part 4):1983	Colourless	Colourless	Colourless	5(15)
3	Taste	-	IS 3025 (Part 7 & 8):	Agreeable	Agreeable	Agreeable	Agreeable
4	Odour	-	IS 3025 (Part 5)	Agreeable	Agreeable	Agreeable	Agreeable
5	Conductivity	µS/cm	APHA 23 rd (2510B)	225	262	207	\$
6	Turbidity	NTU	IS 3025 (Part 10)	<1	<1	<1	1(5)
7	TDS	mg/l	IS 3025 (Part 16)	142	171	130	500(2000)
8	Total Hardness (as CaCO ₃)	mg/l	IS 3025 (Part-21)	84.1	98.4	74.7	200(600)
9	Total Alkalinity as CaCO ₃	mg/l	IS 3025 (Part-23)	59.9	76.6	60.4	200(600)
10	Calcium (as Ca)	mg/l	IS 3025 (part-40)	19.8	22.4	17.7	75(200)
11	Magnesium (as Mg)	mg/l	IS 3025 (Part-46)	8.4	10.3	7.4	30(100)
12	Free residual Chlorine	mg/l	IS:3025 (Part 26, 1.2)	<0.1	<0.1	<0.1	0.2(1)
13	Boron (as B)	mg/l	IS:13428:2005	0.02	<0.01	0.01	0.5(1)
14	Chlorides (as Cl)	mg/l	IS 3025 (Part 32)	22.7	15.8	19.5	250(1000)
15	Sulphates (as SO ₄)	mg/l	IS 3025 (part-24)	13.5	12.3	11.4	200(400)
16	Fluorides (as F)	mg/l	APHA 23 rd (4500)	0.4	0.2	0.3	1.0(1.5)

Note: \$ - Limits not specified;

NR - No Relaxation

Limits are shown in IS 10500 are Acceptable limits (Requirement) and in parenthesis are Permissible limit in absence of alternate source.



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SAMPLE PARTICULARS : Drinking Water

TEST REPORT

Sr.No	Parameter	UoM	Method of Testing	DGCA building DW4	Project Office DW5	Admin Office DW6	Limits as per IS 10500 : 2012
17	Nitrates (as NO ₃)	mg/l	APHA 23 rd (4500)	5.4	4.7	3.5	45(NR)
18	Sodium as Na	mg/l	APHA 23 rd (3500 Na)	11.5	13.5	12.5	\$
19	Potassium as K	mg/l	APHA 23 rd (3500 K)	2.3	2.7	1.4	\$
20	Phenolic Compounds	mg/l	IS:3025 (Part 43)	<0.001	<0.001	<0.001	0.001(0.002)
21	Cyanides(as CN)	mg/l	IS:3025 (Part 27,3)	<0.02	<0.02	<0.02	0.05 (NR)
22	Anionic Detergents	mg/l	IS:13428:2005	<0.02	<0.02	<0.02	0.2 (1.0)
23	Mineral Oil	mg/l	IS 3025 (Part 39):	<0.01	<0.01	<0.01	0.5 (NR)
24	Cadmium (as Cd)	mg/l	APHA 23 rd 3125	<0.003	<0.003	<0.003	0.003 (NR)
25	Total Arsenic (as As)	mg/l	APHA 23 rd 3125	<0.01	<0.01	<0.01	0.01 (0.05)
26	Copper (as Cu)	mg/l	IS:3025 Part 2:2004	<0.01	<0.01	<0.01	0.05 (1.5)
27	Lead (as Pb)	mg/l	APHA 23 rd 3125	<0.01	<0.01	<0.01	0.01 (NR)
28	Manganese (as Mn)	mg/l	APHA 23 rd 3125	<0.01	<0.01	<0.01	0.1 (0.3)
29	Iron (as Fe)	mg/l	APHA 23 rd 3125	0.03	0.01	0.04	0.3(NR)
30	Total Chromium (as Cr)	mg/l	APHA 23 rd 3125	<0.01	<0.01	<0.01	0.05(NR)
31	Selenium (as Se)	mg/l	IS:15303:2003	<0.01	<0.01	<0.01	0.01(NR)
32	Zinc (as Zn)	mg/l	IS:3025 Part 2:2004	0.10	0.06	0.08	5(15)
33	Aluminum (as Al)	mg/l	IS:3025 (Part 55)	<0.01	<0.01	<0.01	0.03(0.2)
34	Mercury (as Hg)	mg/l	APHA 23 rd 3125	<0.001	<0.001	<0.001	0.001(NR)
35	Pesticides	µg/l	APHA 23 rd	Absent	Absent	Absent	Absent
36	E. Coil	-	IS 15185:: 2016	Absent	Absent	Absent	Absent
37	Total Coliforms	MPN/100	IS:15185:2016	Absent	Absent	Absent	10

Note: \$ - Limits not specified;

NR - No Relaxation

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UTTAR PRADESH-226009**


Report Number : VLL/VLS/22/01177/012
Issued Date : 2022.05.08
P. Order Ref : 5700301505
P.O. Date : 20.10.2021

Page 1 of 2

SAMPLE PARTICULARS : **Cooling Tower Water**
Frequency Of Sampling : One Grab sample in a Month
Month of Sampling : **April 2022**
Quantity Collected for Analysis : 5 Liter
Type of Container used for sampling : HDPE Plastic Container-3 L
Amberlite Glass Container-2 L
Test Required : As per IS 10500:2012
Sample Collected On : 15.04.2022
Analysis Start Date : 18.04.2022
Analysis Completion Date : 26.04.2022
Sample collected by Vimta Labs Ltd.,

TEST REPORT

Sr.No.	Parameter	UoM	Method of Testing	Cooling Tower Water Near CCR	Cooling Tower Water Near Scada	Limits as per IS 10500 : 2012
1	pH	--	IS 3025 (Part-11)	7.62	7.83	6.5-8.5 (NR)
2	Salinity	ppt	APHA 23 rd (2520B)	0.126	0.171	--
3	Conductivity	µs/cm	APHA 23 rd (2510B)	512	712	--
4	Total Dissolved Solids	mg/l	IS 3025 (Part 16)	338	476	500(2000)
5	Chlorides as Cl	mg/l	IS 3025 (Part 32)	70.4	95.4	200(600)
6	Mercury as Hg	mg/l	APHA 23 rd 3125	<0.001	<0.001	0.001(NR)
7	Arsenic as As	mg/l	APHA 23 rd 3125	<0.01	<0.01	0.01(0.05)
8	Lead as Pb	mg/l	APHA 23 rd 3125	<0.01	<0.01	0.01(NR)
9	Chromium as Cr	mg/l	APHA 23 rd 3125	<0.01	<0.01	0.05(NR)
10	Cadmium as Cd	mg/l	APHA 23 rd 3125	<0.003	<0.003	0.003(0.003)
11	Total Alkalinity as CaCO ₃	mg/l	IS 3025 (Part-23)	88.9	142.3	200(600)
12	Calcium as Ca	mg/l	IS 3025 (part	49.3	58.2	75(200)
13	Magnesium as Mg	mg/l	IS 3025 (Part	13.8	24.2	30(100)
14	Sodium as Na	mg/l	APHA 23 rd (3500 Na)	29.5	46.1	--
15	Potassium as K	mg/l	APHA 23 rd (3500 K)	9.2	8.1	--
16	Sulphates as SO ₄	mg/l	IS 3025 (part-24)	56.3	65.3	200(400)
17	Nitrates as NO ₃	mg/l	APHA 23 rd (4500)	8.4	10.8	45(NR)


Dr. SubbaReddy Mallampati
Group Leader-Environment

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SAMPLE PARTICULARS : Cooling Tower Water

TEST REPORT

Sr.No.	Parameter	UoM	Method of Testing	Cooling Tower Water Near CCR	Cooling Tower Water Near Scada	Limits as per IS 10500 : 2012
18	Phosphates as PO ₄	mg/l	APHA 23 rd (4500 -P D)	0.03	0.07	--
19	Barium as Ba	mg/l	APHA 23 rd 3125	0.011	0.008	0.7(NR)
20	Fluoride as F	mg/l	APHA 23 rd (4500)	0.5	0.6	1.0(1.5)
21	Cobalt as Co	mg/l	APHA 23 rd 3125	<0.01	<0.01	--
22	Copper as Cu	mg/l	APHA 23 rd 3125	<0.01	<0.01	0.05(1.5)
23	Manganese as Mn	mg/l	APHA 23 rd 3125	<0.01	<0.01	0.1(0.3)
24	Nickel as Ni	mg/l	APHA 23 rd 3125	<0.01	<0.01	0.02(NR)
25	Total Hardness as CaCO ₃	mg/l	IS 3025 (Part-21)	180	245	200(600)
26	Iron as Fe	mg/l	APHA 23 rd 3125	0.09	0.07	1.0
27	Silica as SiO ₂	mg/l	APHA 23 rd (4500 - SiO ₂)	2.4	3.5	--



Dr. SubbaReddy Mallampati
Group Leader-Environment

May-2022

Environmental Monitoring Test Reports



Project Proponent:

M/s. Lucknow International Airport Limited,
(CHAUDHARY CHARAN SINGH INTERNATIONAL AIRPORT),
Amausi, Lucknow, Uttar Pradesh 226009

Consultant:



VIMTA LABS LIMITED,
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**SAMPLE PARTICULARS : AMBIENT AIR QUALITY MONITORING
TOP OF THE FIRE STATION-AIRSIDE**

Frequency Of Sampling : Weekly Twice
Time Weighted Average : 24 Hours
Sampling & Analysis Method : PM10 - IS:5182 P-23; PM2.5-IS:5182P-24; SO2 - IS:5182 P2; and
NO2 - IS:5182 P-6
Month of Monitoring : **May 2022**
Test Required : PM₁₀, PM_{2.5}, SO₂, NO₂ and CO
Sample collected by Vimta labs ltd

TEST REPORT

Location Code:AAQ-1	RESULTS (µg/m ³)				
	Particulates Matter as PM _{2.5}	Particulates Matter as PM ₁₀	Sulphur Dioxide as SO ₂	Nitrogen Dioxide as NO ₂	CO Carbon Monoxide
02.05.2022	35.1	63.6	16.7	18.2	0.446
05.05.2022	33.1	65.5	15.3	22.5	0.445
10.05.2022	30.2	66.2	14.7	16.8	0.436
13.05.2022	33.1	65.2	16.3	22.4	0.433
17.05.2022	36.0	60.6	18.1	20.2	0.477
19.05.2022	30.9	64.2	15.6	18.6	0.458
23.05.2022	34.1	62.7	16.9	19.2	0.420
26.05.2022	32.4	65.2	15.9	17.3	0.443
Minimum	30.2	60.6	14.7	16.8	0.420
Maximum	36.0	66.2	18.1	22.5	0.477
Mean	33.1	64.2	16.2	19.4	0.445
98%le	35.9	66.1	17.9	22.5	0.474
NAAQ Standard	60	100	80	80	2

- All the above values are expressed in µg/m³ except CO is mg/m³

Dr. SubbaReddy Mallampati
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**SAMPLE PARTICULARS : AMBIENT AIR QUALITY MONITORING
TOP OF SCADA BUILDING**

Frequency Of Sampling	: Weekly Twice
Time Weighted Average	: 24 Hours
Sampling & Analysis Method	: PM10 - IS:5182 P-23; PM2.5 - IS:5182P-24; SO2 - IS:5182 P2; and NO2 - IS:5182 P-6
Month of Monitoring	: May 2022
Test Required	: PM ₁₀ , PM _{2.5} , SO ₂ , NO ₂ and CO
Sample collected by Vimta labs ltd	

TEST REPORT

Location Code:AAQ-2	RESULTS (µg/m ³)				
	Particulates Matter as PM _{2.5}	Particulates Matter as PM ₁₀	Sulphur Dioxide as SO ₂	Nitrogen Dioxide as NO ₂	CO Carbon Monoxide
02.05.2022	26.8	61.4	15.2	18.1	0.437
05.05.2022	29.0	64.6	16.4	17.4	0.422
10.05.2022	32.4	59.3	18.1	19.8	0.401
13.05.2022	30.2	62.3	15.4	17.3	0.442
17.05.2022	29.3	65.5	17.1	19.2	0.438
19.05.2022	30.8	60.3	15.3	17.6	0.429
23.05.2022	28.4	62.9	14.7	18.5	0.417
26.05.2022	30.2	64.3	16.5	19.3	0.408
Minimum	26.8	59.3	14.7	17.3	0.401
Maximum	32.4	65.5	18.1	19.8	0.442
Mean	29.6	62.6	16.1	18.4	0.424
98%ile	32.2	65.4	18.0	19.7	0.441
NAAQ Standard	60	100	80	80	2

- All the above values are expressed in µg/m³ except CO is mg/m³

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**SAMPLE PARTICULARS : AMBIENT AIR QUALITY MONITORING
NEAR TERMINAL-1 BUILDING**

Frequency Of Sampling	: Weekly Twice
Time Weighted Average	: 24 Hours
Sampling & Analysis Method	: PM10 - IS:5182 P-23; PM2.5 - IS:5182P-24; SO2 - IS:5182 P2; and NO2 - IS:5182 P-6
Month of Monitoring	: May 2022
Test Required	: PM ₁₀ , PM _{2.5} , SO ₂ , NO ₂ and CO,
Sample collected by Vimta labs ltd	

TEST REPORT

Location Code:AAQ-3	RESULTS($\mu\text{g}/\text{m}^3$)				
	Particulates Matter as PM _{2.5}	Particulates Matter as PM ₁₀	Sulphur Dioxide as SO ₂	Nitrogen Dioxide as NO ₂	CO Carbon Monoxide
02.05.2022	27.4	61.8	17.2	19.3	0.478
05.05.2022	29.4	58.5	15.7	17.1	0.457
10.05.2022	27.2	61.4	17.8	19.2	0.480
13.05.2022	30.3	60.2	16.2	17.1	0.478
17.05.2022	25.8	64.5	16.8	18.1	0.448
19.05.2022	27.1	58.0	14.7	16.4	0.454
23.05.2022	30.4	61.7	16.0	15.4	0.472
26.05.2022	26.4	59.3	17.2	19.2	0.463
Minimum	25.8	58.0	14.7	15.4	0.448
Maximum	30.4	64.5	17.8	19.3	0.480
Mean	28.0	60.7	16.5	17.7	0.466
98%ile	30.4	64.1	17.7	19.3	0.480
NAAQ Standard	60	100	80	80	2

- All the above values are expressed in $\mu\text{g}/\text{m}^3$ except CO is mg/m^3

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**SAMPLE PARTICULARS : AMBIENT AIR QUALITY MONITORING
PROJECT OFFICE**

Frequency Of Sampling : Weekly Twice
Time Weighted Average : 24 Hours
Sampling & Analysis Method : PM10-IS:5182 P-23; and PM2.5-IS:5182P-24
Month of Monitoring : **May 2022**
Test Required : PM₁₀, PM_{2.5}, SO₂, NO₂ and CO
Sample collected by Vimta labs ltd

TEST REPORT

Location Code:AAQ-4	RESULTS ($\mu\text{g}/\text{m}^3$)				
	Particulates Matter as PM _{2.5}	Particulates Matter as PM ₁₀	Sulphur Dioxide as SO ₂	Nitrogen Dioxide as NO ₂	CO Carbon Monoxide
02.05.2022	27.3	56.8	15.7	17.7	0.415
05.05.2022	31.5	58.6	14.5	16.5	0.432
10.05.2022	29.5	57.8	16.1	19.7	0.473
13.05.2022	32.8	63.7	15.8	18.5	0.442
17.05.2022	28.5	59.3	15.6	19.4	0.376
19.05.2022	30.8	64.5	14.3	16.1	0.466
23.05.2022	31.2	65.8	16.4	20.2	0.398
26.05.2022	27.7	61.3	15.1	16.9	0.389
Minimum	27.3	56.8	14.3	16.1	0.376
Maximum	32.8	65.8	16.4	20.2	0.473
Mean	29.9	61.0	15.4	18.1	0.424
98%ile	32.6	65.6	16.4	20.1	0.472
NAAQ Standard	60	100	80	80	2

- All the above values are expressed in $\mu\text{g}/\text{m}^3$ except CO is mg/m^3

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**SAMPLE PARTICULARS : AMBIENT AIR QUALITY MONITORING
RAHIMABAD**

Frequency Of Sampling : Weekly Twice
Time Weighted Average : 24 Hours
Sampling & Analysis Method : PM10-IS:5182 P-23; and PM2.5-IS:5182P-24
Month of Monitoring : **May 2022**
Test Required : PM₁₀, PM_{2.5}, SO₂, NO₂ and CO
Sample collected by Vimta labs ltd

TEST REPORT

Location Code:AAQ-5	RESULTS (µg/m ³)				
Date of Sampling	Particulates Matter as PM _{2.5}	Particulates Matter as PM ₁₀	Sulphur Dioxide as SO ₂	Nitrogen Dioxide as NO ₂	CO Carbon Monoxide
02.05.2022	35.1	64.2	16.2	17.4	0.422
05.05.2022	28.4	60.2	13.6	15.3	0.341
10.05.2022	29.3	65.6	15.3	16.3	0.387
13.05.2022	34.2	63.6	16.6	19.2	0.462
17.05.2022	35.4	60.5	14.8	21.3	0.443
19.05.2022	32.8	63.5	13.7	17.2	0.337
23.05.2022	31.1	68.4	16.2	20.5	0.420
26.05.2022	34.7	61.4	14.8	19.5	0.389
Minimum	28.4	60.2	13.6	15.3	0.337
Maximum	35.4	68.4	16.6	21.3	0.462
Mean	32.6	63.4	15.2	18.3	0.400
98%ile	35.4	68.0	16.5	21.2	0.459
NAAQ Standard	60	100	80	80	2

- All the above values are expressed in µg/m³ except CO is mg/m³

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**SAMPLE PARTICULARS : AMBIENT AIR QUALITY MONITORING
NADARGANJ**

Frequency Of Sampling : Weekly Twice
Time Weighted Average : 24 Hours
Sampling & Analysis Method : PM10-IS:5182 P-23; and PM2.5-IS:5182P-24
Month of Monitoring : **May 2022**
Test Required : PM₁₀, PM_{2.5}, SO₂, NO₂ and CO
Sample collected by Vimta labs ltd

TEST REPORT

Location Code:AAQ-6	RESULTS ($\mu\text{g}/\text{m}^3$)				
	Particulates Matter as PM _{2.5}	Particulates Matter as PM ₁₀	Sulphur Dioxide as SO ₂	Nitrogen Dioxide as NO ₂	CO Carbon Monoxide
02.05.2022	32.0	67.0	14.6	16.3	0.452
05.05.2022	31.1	59.3	13.5	15.7	0.387
10.05.2022	27.5	61.7	15.6	17.5	0.423
13.05.2022	32.6	65.7	16.2	18.2	0.402
17.05.2022	31.2	60.4	15.8	17.4	0.392
19.05.2022	26.7	66.7	14.3	16.2	0.409
23.05.2022	27.4	59.3	13.5	15.5	0.355
26.05.2022	32.0	69.5	14.3	17.2	0.401
Minimum	26.7	59.3	13.5	15.5	0.355
Maximum	32.6	69.5	16.2	18.2	0.452
Mean	30.1	63.7	14.7	16.8	0.403
98%ile	32.5	69.2	16.1	18.1	0.448
NAAQ Standard					

- All the above values are expressed in $\mu\text{g}/\text{m}^3$ except CO is mg/m^3

Dr. SubbaReddy Mallampati
Dy. Manager

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SAMPLE PARTICULARS : AMBIENT NOISE LEVEL MONITORING

Frequency Of Sampling : Monthly Once in Each Location
Time Weighted Average : 24 Hours
Method of Analysis : IS:9989
Month of Monitoring : **May 2022**
Test Required : L-Day and L-Night
Sample collected by Vimta labs ltd

TEST REPORT

Sr.No	Name of the Location	Date of Monitoring	L-day	L-night
			dB(A)	
1	Top of the Fire Station (Air Side)	10.05.2022	67.3	63.1
2	Top of SCADA Building	05.05.2022	64.5	57.9
3	Near Terminal-1 Building	02.05.2022	63.2	59.7
4	Project office	13.05.2022	61.6	56.9
5	Rahimabad	17.05.2022	59.1	52.8
6	Nadarganj	19.05.2022	54.3	44.8
Noise Standards for Airport Zone			70.0	65.0



Dr. SubbaReddy Mallampati
Dy. Manager

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SAMPLE PARTICULARS : STP WATER

Frequency Of Sampling	: One Grab sample in a Month
Month of Sampling	: May 2022
Quantity Collected for Analysis	: 5 Liter
Type of Container used for sampling	: HDPE Plastic Container-3 L Amberlite Glass Container-2 L
Test Required	: pH; Total Suspended Solids; Total Dissolved Solids; Total Nitrogen; Chemical Oxygen Demand; Biological Oxygen Demand; Oil and Grease; and Ammonical Nitrogen, Residual Chlorine and Fecal Coliform.
Sample Collected On	: 26.05.2022
Analysis Start Date	: 28.05.2022
Analysis Completion Date	: 04.06.2022
Sample collected by	: Vimta Labs Ltd.,

TEST REPORT

Sr.No	Parameters	Method Adopted	UoM	STP Inlet Water	STP Outlet Water	CPCB Standard	Limits as per G.S.R. 1265(E)
1	pH	IS:3025 P-11	--	7.63	7.35	5.5 - 9.0	6.5 - 9.0
2	Total Suspended Solids	IS:3025 P-17	mg/L	195	23	100	< 50
3	Total Dissolved Solids	IS:3025 P-16	mg/L	321	302	2100	--
4	Total Nitrogen	APHA 4500-B	mg/L	7.4	2.7	10	--
5	Chemical Oxygen Demand	APHA 5220B	mg/L	288	61	250	--
6	Biological Oxygen Demand at 27°C, 3 days	IS:3025 P-44	mg/L	87	15	30	< 20
7	Oil and Grease	APHA 5520-C	mg/L	3.2	<1.0	10	--
8	Ammonical Nitrogen	APHA 4500-F	mg/L	4.1	<0.1	5	--
9	Residual Chlorine	IS:3025 P-26	mg/L	<0.1	<0.1	-	-
10	Fecal Coliform	EPA Method 1681: 2006	MPN/100ml	327	<1.8	<100	<1000


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SAMPLE PARTICULARS : Drinking Water

Frequency Of Sampling : One Grab sample in a Quarter
Month of Sampling : **May 2022**
Quantity Collected for Analysis : 5 Liter
Type of Container used for sampling : HDPE Plastic Container-3 L
Amberlite Glass Container-2 L
Test Required : As per IS 10500:2012
Sample Collected On : 26.05.2022
Analysis Start Date : 28.05.2022
Analysis Completion Date : 04.06.2022
Sample collected by Vimta Labs Ltd.,

TEST REPORT

Sr.No	Parameter	UoM	Method of Testing	Terminal-1 DW1	Terminal-2 DW2	ATC building DW3	Limits as per IS 10500 : 2012
1	pH	-	IS 3025 (Part-11)	7.65	7.43	7.84	6.5 – 8.5 (NR)
2	Colour	Hazen	IS:3025 (Part 4):1983	Colourless	Colourless	Colourless	5(15)
3	Taste	-	IS 3025 (Part 7 & 8):	Agreeable	Agreeable	Agreeable	Agreeable
4	Odour	-	IS 3025 (Part 5)	Agreeable	Agreeable	Agreeable	Agreeable
5	Conductivity	µS/cm	APHA 23 rd (2510B)	287	241	317	\$
6	Turbidity	NTU	IS 3025 (Part 10)	<1	<1	<1	1(5)
7	TDS	mg/l	IS 3025 (Part 16)	180	156	202	500(2000)
8	Total Hardness (as CaCO ₃)	mg/l	IS 3025 (Part-21)	106.3	93.3	121.9	200(600)
9	Total Alkalinity as CaCO ₃	mg/l	IS 3025 (Part-23)	68.4	60.3	73.2	200(600)
10	Calcium (as Ca)	mg/l	IS 3025 (part-40)	22.1	23.5	26.7	75(200)
11	Magnesium (as Mg)	mg/l	IS 3025 (Part-46)	12.4	8.4	13.4	30(100)
12	Free residual Chlorine	mg/l	IS:3025 (Part 26, 1.2)	<0.1	<0.1	<0.1	0.2(1)
13	Boron (as B)	mg/l	IS:13428:2005	<0.01	<0.01	<0.01	0.5(1)
14	Chlorides (as Cl)	mg/l	IS 3025 (Part 32)	36.2	26.3	38.7	250(1000)
15	Sulphates (as SO ₄)	mg/l	IS 3025 (part-24)	17.2	18.2	24.6	200(400)
16	Fluorides (as F)	mg/l	APHA 23 rd (4500)	0.3	0.2	0.1	1.0(1.5)

Note: \$ - Limits not specified;

NR - No Relaxation

Limits are shown in IS 10500 are Acceptable limits (Requirement) and in parenthesis are Permissible limit in absence of alternate Source



Dr. SubbaReddy Mallampati
Dy. Manager

ISSUED TO:

**M/S. LUCKNOW INTERNATIONAL AIRPORT LIMITED.,
(CHAUDHARY CHARAN SINGH INTERNATIONAL
AIRPORT), AMAUSI, LUCKNOW,
UTTAR PRADESH-226009**

Report Number : VLL/VLS/22/03413/009
Issued Date : 2022.06.08
P. Order Ref : 5700309099
P.O. Date : 13.05.2022

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SAMPLE PARTICULARS : Drinking Water

TEST REPORT

Sr.No	Parameter	UoM	Method of Testing	Terminal-1 DW1	Terminal-2 DW2	ATC building DW3	Limits as per IS 10500 : 2012
17	Nitrates (as NO ₃)	mg/l	APHA 23 rd (4500)	5.7	4.0	5.0	45(NR)
18	Sodium as Na	mg/l	APHA 23 rd (3500 Na)	16.0	11.2	15.9	\$
19	Potassium as K	mg/l	APHA 23 rd (3500 K)	1.7	2.3	1.5	\$
20	Phenolic Compounds	mg/l	IS:3025 (Part 43)	<0.001	<0.001	<0.001	0.001(0.002)
21	Cyanides(as CN)	mg/l	IS:3025 (Part 27,3)	<0.02	<0.02	<0.02	0.05 (NR)
22	Anionic Detergents	mg/l	IS:13428:2005	<0.02	<0.02	<0.02	0.2 (1.0)
23	Mineral Oil	mg/l	IS 3025 (Part 39):	<0.01	<0.01	<0.01	0.5 (NR)
24	Cadmium (as Cd)	mg/l	APHA 23 rd 3125	<0.003	<0.003	<0.003	0.003 (NR)
25	Total Arsenic (as As)	mg/l	APHA 23 rd 3125	<0.01	<0.01	<0.01	0.01 (0.05)
26	Copper (as Cu)	mg/l	IS:3025 Part 2:2004	<0.01	<0.01	<0.01	0.05 (1.5)
27	Lead (as Pb)	mg/l	APHA 23 rd 3125	<0.01	<0.01	<0.01	0.01 (NR)
28	Manganese (as Mn)	mg/l	APHA 23 rd 3125	<0.01	<0.01	<0.01	0.1 (0.3)
29	Iron (as Fe)	mg/l	APHA 23 rd 3125	0.01	0.02	0.03	0.3(NR)
30	Total Chromium (as Cr)	mg/l	APHA 23 rd 3125	<0.01	<0.01	<0.01	0.05(NR)
31	Selenium (as Se)	mg/l	IS:15303:2003	<0.01	<0.01	<0.01	0.01(NR)
32	Zinc (as Zn)	mg/l	IS:3025 Part 2:2004	0.05	0.07	0.04	5(15)
33	Aluminum (as Al)	mg/l	IS:3025 (Part 55)	<0.001	<0.001	<0.001	0.03(0.2)
34	Mercury (as Hg)	mg/l	APHA 23 rd 3125	<0.001	<0.001	<0.001	0.001(NR)
35	Pesticides	µg/l	APHA 23 rd	Absent	Absent	Absent	Absent
36	E. Coil	-	IS 15185:: 2016	Absent	Absent	Absent	Absent
37	Total Coliforms	MPN/100	IS:15185:2016	Absent	Absent	Absent	10

Note: \$ - Limits not specified;

NR - No Relaxation

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Dr. SubbaReddy Mallampati
Dy. Manager

ISSUED TO:

**M/S. LUCKNOW INTERNATIONAL AIRPORT LIMITED.,
(CHAUDHARY CHARAN SINGH INTERNATIONAL
AIRPORT), AMAUSI, LUCKNOW,
UTTAR PRADESH-226009**

Report Number : VLL/VLS/22/03413/010
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Page 1 of 2

SAMPLE PARTICULARS : Drinking Water

Frequency Of Sampling : One Grab sample in a Quarter
Month of Sampling : **May 2022**
Quantity Collected for Analysis : 5 Liter
Type of Container used for sampling : HDPE Plastic Container-3 L
Amberlite Glass Container-2 L
Test Required : As per IS 10500:2012
Sample Collected On : 26.05.2022
Analysis Start Date : 28.05.2022
Analysis Completion Date : 04.06.2022
Sample collected by Vimta Labs Ltd.,


TEST REPORT

Sr.No	Parameter	UoM	Method of Testing	DGCA building DW4	Project Office DW5	Admin Office DW6	Limits as per IS 10500 : 2012
1	pH	-	IS 3025 (Part-11)	7.56	7.71	7.47	6.5 – 8.5 (NR)
2	Colour	Hazen	IS:3025 (Part 4):1983	Colourless	Colourless	Colourless	5(15)
3	Taste	-	IS 3025 (Part 7 & 8):	Agreeable	Agreeable	Agreeable	Agreeable
4	Odour	-	IS 3025 (Part 5)	Agreeable	Agreeable	Agreeable	Agreeable
5	Conductivity	µS/cm	APHA 23 rd (2510B)	266	227	308	\$
6	Turbidity	NTU	IS 3025 (Part 10)	<1	<1	<1	1(5)
7	TDS	mg/l	IS 3025 (Part 16)	167	147	194	500(2000)
8	Total Hardness (as CaCO ₃)	mg/l	IS 3025 (Part-21)	101.4	84.6	119.2	200(600)
9	Total Alkalinity as CaCO ₃	mg/l	IS 3025 (Part-23)	66.4	67.7	71.4	200(600)
10	Calcium (as Ca)	mg/l	IS 3025 (part-40)	23.1	20.5	27.1	75(200)
11	Magnesium (as Mg)	mg/l	IS 3025 (Part-46)	10.6	8.1	12.5	30(100)
12	Free residual Chlorine	mg/l	IS:3025 (Part 26, 1.2)	<0.1	<0.1	<0.1	0.2(1)
13	Boron (as B)	mg/l	IS:13428:2005	0.01	<0.01	<0.01	0.5(1)
14	Chlorides (as Cl)	mg/l	IS 3025 (Part 32)	27.8	18.4	37.2	250(1000)
15	Sulphates (as SO ₄)	mg/l	IS 3025 (part-24)	21.3	13,5	24,3	200(400)
16	Fluorides (as F)	mg/l	APHA 23 rd (4500)	0.2	0.1	0.2	1.0(1.5)

Note: \$ - Limits not specified;

NR - No Relaxation

Limits are shown in IS 10500 are Acceptable limits (Requirement) and in parenthesis are Permissible limit in absence of alternate source.


Dr. SubbaReddy Mallampati
Dy. Manager

ISSUED TO:

**M/S. LUCKNOW INTERNATIONAL AIRPORT LIMITED.,
(CHAUDHARY CHARAN SINGH INTERNATIONAL
AIRPORT), AMAUSI, LUCKNOW,
UTTAR PRADESH-226009**

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Page 2 of 2

SAMPLE PARTICULARS : Drinking Water

TEST REPORT

Sr.No	Parameter	UoM	Method of Testing	DGCA building DW4	Project Office DW5	Admin Office DW6	Limits as per IS 10500 : 2012
17	Nitrates (as NO ₃)	mg/l	APHA 23 rd (4500)	6.2	5.8	4.1	45(NR)
18	Sodium as Na	mg/l	APHA 23 rd (3500 Na)	13.7	11.8	14.8	\$
19	Potassium as K	mg/l	APHA 23 rd (3500 K)	1.3	2.1	1.8	\$
20	Phenolic Compounds	mg/l	IS:3025 (Part 43)	<0.001	<0.001	<0.001	0.001(0.002)
21	Cyanides(as CN)	mg/l	IS:3025 (Part 27,3)	<0.02	<0.02	<0.02	0.05 (NR)
22	Anionic Detergents	mg/l	IS:13428:2005	<0.02	<0.02	<0.02	0.2 (1.0)
23	Mineral Oil	mg/l	IS 3025 (Part 39):	<0.01	<0.01	<0.01	0.5 (NR)
24	Cadmium (as Cd)	mg/l	APHA 23 rd 3125	<0.003	<0.003	<0.003	0.003 (NR)
25	Total Arsenic (as As)	mg/l	APHA 23 rd 3125	<0.01	<0.01	<0.01	0.01 (0.05)
26	Copper (as Cu)	mg/l	IS:3025 Part 2:2004	<0.01	<0.01	<0.01	0.05 (1.5)
27	Lead (as Pb)	mg/l	APHA 23 rd 3125	<0.01	<0.01	<0.01	0.01 (NR)
28	Manganese (as Mn)	mg/l	APHA 23 rd 3125	<0.01	<0.01	<0.01	0.1 (0.3)
29	Iron (as Fe)	mg/l	APHA 23 rd 3125	0.01	0.03	0.02	0.3(NR)
30	Total Chromium (as Cr)	mg/l	APHA 23 rd 3125	<0.01	<0.01	<0.01	0.05(NR)
31	Selenium (as Se)	mg/l	IS:15303:2003	<0.01	<0.01	<0.01	0.01(NR)
32	Zinc (as Zn)	mg/l	IS:3025 Part 2:2004	0.07	0.05	0.09	5(15)
33	Aluminum (as Al)	mg/l	IS:3025 (Part 55)	<0.01	<0.01	<0.01	0.03(0.2)
34	Mercury (as Hg)	mg/l	APHA 23 rd 3125	<0.001	<0.001	<0.001	0.001(NR)
35	Pesticides	µg/l	APHA 23 rd	Absent	Absent	Absent	Absent
36	E. Coil	-	IS 15185:: 2016	Absent	Absent	Absent	Absent
37	Total Coliforms	MPN/100	IS:15185:2016	Absent	Absent	Absent	10

Note: \$ - Limits not specified;

NR - No Relaxation

Limits are shown in IS 10500 are Acceptable limits (Requirement) and in parenthesis are Permissible limit in absence of alternate source.



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Dy. Manager

ISSUED TO:

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(CHAUDHARY CHARAN SINGH INTERNATIONAL
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UTTAR PRADESH-226009**

Report Number : VLL/VLS/22/03413/011
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SAMPLE PARTICULARS : Cooling Tower Water

Frequency Of Sampling : One Grab sample in a Month
Month of Sampling : **May 2022**
Quantity Collected for Analysis : 5 Liter
Type of Container used for sampling : HDPE Plastic Container-3 L
Amberlite Glass Container-2 L
Test Required : As per IS 10500:2012
Sample Collected On : 26.05.2022
Analysis Start Date : 28.05.2022
Analysis Completion Date : 04.06.2022
Sample collected by Vimta Labs Ltd.,

TEST REPORT

Sr.No.	Parameter	UoM	Method of Testing	Cooling Tower Water Near CCR	Cooling Tower Water Near Scada	Limits as per IS 10500 : 2012
1	pH	--	IS 3025 (Part-11)	7.84	7.65	6.5-8.5 (NR)
2	Salinity	ppt	APHA 23 rd (2520B)	0.176	0.212	--
3	Conductivity	µs/cm	APHA 23 rd (2510B)	732	844	--
4	Total Dissolved Solids	mg/l	IS 3025 (Part 16)	483	565	500(2000)
5	Chlorides as Cl	mg/l	IS 3025 (Part 32)	98.3	118.3	200(600)
6	Mercury as Hg	mg/l	APHA 23 rd 3125	<0.001	<0.001	0.001(NR)
7	Arsenic as As	mg/l	APHA 23 rd 3125	<0.01	<0.01	0.01(0.05)
8	Lead as Pb	mg/l	APHA 23 rd 3125	<0.01	<0.01	0.01(NR)
9	Chromium as Cr	mg/l	APHA 23 rd 3125	<0.01	<0.01	0.05(NR)
10	Cadmium as Cd	mg/l	APHA 23 rd 3125	<0.003	<0.003	0.003(0.003)
11	Total Alkalinity as CaCO ₃	mg/l	IS 3025 (Part-23)	141.2	159.3	200(600)
12	Calcium as Ca	mg/l	IS 3025 (part	63.1	70.2	75(200)
13	Magnesium as Mg	mg/l	IS 3025 (Part	25.4	32.1	30(100)
14	Sodium as Na	mg/l	APHA 23 rd (3500 Na)	40.8	46.4	--
15	Potassium as K	mg/l	APHA 23 rd (3500 K)	11.2	10.4	--
16	Sulphates as SO ₄	mg/l	IS 3025 (part-24)	72.3	81.2	200(400)
17	Nitrates as NO ₃	mg/l	APHA 23 rd (4500)	8.4	10.8	45(NR)


Dr. SubbaReddy Mallampati
Dy. Manager

ISSUED TO:

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UTTAR PRADESH-226009**


Report Number : VLL/VLS/22/03413/011
Issued Date : 2022.06.08
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P.O. Date : 13.05.2022

Page 2 of 2

SAMPLE PARTICULARS : Cooling Tower Water

TEST REPORT

Sr.No.	Parameter	UoM	Method of Testing	Cooling Tower Water Near CCR	Cooling Tower Water Near Scada	Limits as per IS 10500 : 2012
18	Phosphates as PO ₄	mg/l	APHA 23 rd (4500 -P D)	0.05	0.04	--
19	Barium as Ba	mg/l	APHA 23 rd 3125	0.009	0.006	0.7(NR)
20	Fluoride as F	mg/l	APHA 23 rd (4500)	0.6	0.4	1.0(1.5)
21	Cobalt as Co	mg/l	APHA 23 rd 3125	<0.01	<0.01	--
22	Copper as Cu	mg/l	APHA 23 rd 3125	<0.01	<0.01	0.05(1.5)
23	Manganese as Mn	mg/l	APHA 23 rd 3125	<0.01	<0.01	0.1(0.3)
24	Nickel as Ni	mg/l	APHA 23 rd 3125	<0.01	<0.01	0.02(NR)
25	Total Hardness as CaCO ₃	mg/l	IS 3025 (Part-21)	262.3	307.6	200(600)
26	Iron as Fe	mg/l	APHA 23 rd 3125	0.07	0.05	1.0
27	Silica as SiO ₂	mg/l	APHA 23 rd (4500 - SiO ₂)	3.1	4.2	--


Dr. SubbaReddy Mallampati
Dy. Manager

June-2022

Environmental Monitoring Test Reports



Project Proponent:

M/s. Lucknow International Airport Limited,
(CHAUDHARY CHARAN SINGH INTERNATIONAL AIRPORT),
Amausi, Lucknow, Uttar Pradesh 226009

Consultant:

Vimta 
Driven by Quality. Inspired by Science.

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**ISSUED TO:**

**M/S.LUCKNOW INTERNATIONAL AIRPORT LIMITED.,
(CHAUDHARY CHARAN SINGH INTERNATIONAL
AIRPORT),
AMAUSI, LUCKNOW,
UTTARPRADESH-226009**

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Page 1 of 1

**SAMPLE PARTICULARS : AMBIENT AIR QUALITY MONITORING
TOP OF THE FIRE STATION-AIRSIDE**

Frequency Of Sampling : Weekly Twice
Time Weighted Average : 24 Hours
Sampling & Analysis Method : PM10 - IS:5182 P-23; PM2.5-IS:5182P-24; SO2 - IS:5182 P2; and
NO2 - IS:5182 P-6
Month of Monitoring : **June 2022**
Test Required : PM₁₀, PM_{2.5}, SO₂, NO₂ and CO
Sample collected by Vimta labs ltd

TEST REPORT

Location Code:AAQ-1	RESULTS ($\mu\text{g}/\text{m}^3$)				
	Particulates Matter as PM _{2.5}	Particulates Matter as PM ₁₀	Sulphur Dioxide as SO ₂	Nitrogen Dioxide as NO ₂	CO Carbon Monoxide
01.06.2022	33.3	65.7	15.2	16.3	0.430
03.06.2022	31.3	67.6	13.8	20.6	0.429
06.06.2022	28.4	63.2	17.2	15.7	0.420
08.06.2022	31.3	67.3	14.8	20.5	0.417
13.06.2022	34.2	62.7	16.6	21.4	0.461
15.06.2022	29.1	66.3	14.1	16.7	0.442
22.06.2022	32.3	64.8	15.4	17.3	0.404
24.06.2022	30.6	67.3	14.4	18.4	0.427
27.06.2022	32.5	65.3	16.3	20.4	0.462
29.06.2022	29.6	62.8	15.6	19.3	0.426
Minimum	28.4	62.7	13.8	15.7	0.404
Maximum	34.2	67.6	17.2	21.4	0.462
Mean	31.3	65.3	15.3	18.7	0.432
98%ile	34.0	67.5	17.1	21.3	0.462
NAAQ Standard	60	100	80	80	2

- All the above values are expressed in $\mu\text{g}/\text{m}^3$ except CO is mg/m^3

**Dr. SubbaReddy Mallampati
Dy. Manager-Environment**

Vimta Labs Limited

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**ISSUED TO:**

**M/S.LUCKNOW INTERNATIONAL AIRPORT LIMITED.,
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AMAUSI, LUCKNOW,
UTTARPRADESH-226009**

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Page 1 of 1

**SAMPLE PARTICULARS : AMBIENT AIR QUALITY MONITORING
TOP OF SCADA BUILDING**

Frequency Of Sampling	: Weekly Twice
Time Weighted Average	: 24 Hours
Sampling & Analysis Method	: PM10 - IS:5182 P-23; PM2.5 - IS:5182P-24; SO2 - IS:5182 P2; and NO2 - IS:5182 P-6
Month of Monitoring	: June 2022
Test Required	: PM ₁₀ , PM _{2.5} , SO ₂ , NO ₂ and CO
Sample collected by Vimta labs ltd	

TEST REPORT

Location Code:AAQ-2	RESULTS (µg/m ³)				
	Particulates Matter as PM _{2.5}	Particulates Matter as PM ₁₀	Sulphur Dioxide as SO ₂	Nitrogen Dioxide as NO ₂	CO Carbon Monoxide
01.06.2022	30.2	63.5	13.7	16.2	0.421
03.06.2022	27.2	59.3	14.9	15.5	0.406
06.06.2022	30.6	61.4	16.6	17.9	0.385
08.06.2022	28.4	64.4	13.9	15.4	0.426
13.06.2022	27.5	58.3	15.6	17.3	0.422
15.06.2022	29.0	62.4	13.8	15.7	0.413
22.06.2022	26.6	63.1	13.2	16.6	0.401
24.06.2022	28.4	62.6	15.0	17.4	0.392
27.06.2022	31.4	60.8	14.7	18.2	0.422
29.06.2022	27.5	57.4	13.7	16.1	0.397
Minimum	26.6	57.4	13.2	15.4	0.385
Maximum	31.4	64.4	16.6	18.2	0.426
Mean	28.7	61.3	14.5	16.6	0.409
98%ile	31.3	64.2	16.4	18.1	0.425
NAAQ Standard	60	100	80	80	2

- All the above values are expressed in µg/m³ except CO is mg/m³

**Dr. SubbaReddy Mallampati
Dy. Manager-Environment**

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**ISSUED TO:**

**M/S.LUCKNOW INTERNATIONAL AIRPORT LIMITED.,
 (CHAUDHARY CHARAN SINGH INTERNATIONAL
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 AMAUSI, LUCKNOW,
 UTTARPRADESH-226009**

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Page 1 of 1

**SAMPLE PARTICULARS : AMBIENT AIR QUALITY MONITORING
 NEAR TERMINAL-1 BUILDING**

Frequency Of Sampling	: Weekly Twice
Time Weighted Average	: 24 Hours
Sampling & Analysis Method	: PM10 - IS:5182 P-23; PM2.5 - IS:5182P-24; SO2 - IS:5182 P2; and NO2 - IS:5182 P-6
Month of Monitoring	: June 2022
Test Required	: PM ₁₀ , PM _{2.5} , SO ₂ , NO ₂ and CO,
Sample collected by	Vimta labs ltd

TEST REPORT

Location Code:AAQ-3	RESULTS($\mu\text{g}/\text{m}^3$)				
	Particulates Matter as PM _{2.5}	Particulates Matter as PM ₁₀	Sulphur Dioxide as SO ₂	Nitrogen Dioxide as NO ₂	CO Carbon Monoxide
Date of Sampling					
01.06.2022	25.6	59.4	15.7	17.4	0.462
03.06.2022	27.6	60.6	14.2	15.2	0.441
06.06.2022	25.4	63.5	16.3	17.3	0.464
08.06.2022	28.5	62.3	14.7	15.2	0.462
13.06.2022	24.0	59.2	15.3	16.2	0.432
15.06.2022	25.3	60.1	13.2	14.5	0.438
22.06.2022	28.6	63.8	14.5	16.3	0.456
24.06.2022	24.6	61.4	15.7	17.3	0.447
27.06.2022	27.1	57.5	14.4	16.8	0.472
29.06.2022	24.8	63.2	13.8	15.3	0.455
Minimum	24.0	57.5	13.2	14.5	0.432
Maximum	28.6	63.8	16.3	17.4	0.472
Mean	26.2	61.1	14.8	16.2	0.453
98%ile	28.6	63.7	16.2	17.4	0.471
NAAQ Standard	60	100	80	80	2

- All the above values are expressed in $\mu\text{g}/\text{m}^3$ except CO is mg/m^3

**Dr. SubbaReddy Mallampati
 Dy. Manager-Environment**

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AMAUSI, LUCKNOW,
UTTARPRADESH-226009

Report Number : VLL/VLS/22/04900/004
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Page 1 of 1

**SAMPLE PARTICULARS : AMBIENT AIR QUALITY MONITORING
PROJECT OFFICE**

Frequency Of Sampling	: Weekly Twice
Time Weighted Average	: 24 Hours
Sampling & Analysis Method	: PM10-IS:5182 P-23; and PM2.5-IS:5182P-24
Month of Monitoring	: June 2022
Test Required	: PM ₁₀ , PM _{2.5} , SO ₂ , NO ₂ and CO
Sample collected by Vimta labs ltd	

TEST REPORT

Location Code:AAQ-4	RESULTS (µg/m ³)					
	Date of Sampling	Particulates Matter as PM _{2.5}	Particulates Matter as PM ₁₀	Sulphur Dioxide as SO ₂	Nitrogen Dioxide as NO ₂	CO Carbon Monoxide
	01.06.2022	25.5	58.9	14.2	16.4	0.399
	03.06.2022	29.7	60.7	15.2	18.0	0.416
	06.06.2022	27.7	59.9	14.6	17.8	0.457
	08.06.2022	31.0	65.8	15.3	16.6	0.426
	13.06.2022	26.7	61.4	14.1	17.5	0.360
	15.06.2022	29.0	66.6	15.0	18.2	0.450
	22.06.2022	29.4	67.9	14.9	17.7	0.382
	24.06.2022	25.9	63.4	13.6	15.0	0.373
	27.06.2022	30.4	60.3	12.8	17.4	0.463
	29.06.2022	27.5	58.1	14.0	19.3	0.416
	Minimum	25.5	58.1	12.8	15.0	0.360
	Maximum	31.0	67.9	15.3	19.3	0.463
	Mean	28.3	62.3	14.4	17.4	0.414
	98%ile	30.9	67.7	15.3	19.1	0.462
	NAAQ Standard	60	100	80	80	2

- All the above values are expressed in µg/m³ except CO is mg/m³

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**ISSUED TO:**

**M/S.LUCKNOW INTERNATIONAL AIRPORT LIMITED.,
(CHAUDHARY CHARAN SINGH INTERNATIONAL
AIRPORT),
AMAUSI, LUCKNOW,
UTTARPRADESH-226009**

Report Number : VLL/VLS/22/04900/005
Issued Date : 2022.07.05
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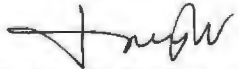
**SAMPLE PARTICULARS : AMBIENT AIR QUALITY MONITORING
RAHIMABAD**

Frequency Of Sampling : Weekly Twice
Time Weighted Average : 24 Hours
Sampling & Analysis Method : PM10-IS:5182 P-23; and PM2.5-IS:5182P-24
Month of Monitoring : June 2022
Test Required : PM₁₀, PM_{2.5}, SO₂, NO₂ and CO
Sample collected by Vimta labs ltd

TEST REPORT

Location Code:AAQ-5	RESULTS ($\mu\text{g}/\text{m}^3$)				
Date of Sampling	Particulates Matter as PM _{2.5}	Particulates Matter as PM ₁₀	Sulphur Dioxide as SO ₂	Nitrogen Dioxide as NO ₂	CO Carbon Monoxide
01.06.2022	33.3	66.3	14.7	15.5	0.406
03.06.2022	26.6	62.3	12.1	16.1	0.325
06.06.2022	27.5	67.7	13.8	14.4	0.371
08.06.2022	32.4	65.7	15.1	17.3	0.446
13.06.2022	33.6	62.6	13.3	19.4	0.427
15.06.2022	31.0	65.6	12.2	15.3	0.321
22.06.2022	29.3	61.8	14.7	18.6	0.404
24.06.2022	32.9	63.5	13.3	17.6	0.373
27.06.2022	27.8	59.3	15.5	20.2	0.435
29.06.2022	31.7	65.3	12.9	18.3	0.451
Minimum	26.6	59.3	12.1	14.4	0.321
Maximum	33.6	67.7	15.5	20.2	0.451
Mean	30.6	64.0	13.8	17.3	0.396
98%ile	33.5	67.4	15.4	20.1	0.450
NAAQ Standard	60	100	80	80	2

- All the above values are expressed in $\mu\text{g}/\text{m}^3$ except CO is mg/m^3


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Report Number : VLL/VLS/22/04900/006
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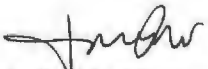
**SAMPLE PARTICULARS : AMBIENT AIR QUALITY MONITORING
NADARGANJ**

Frequency Of Sampling : Weekly Twice
Time Weighted Average : 24 Hours
Sampling & Analysis Method : PM10-IS:5182 P-23; and PM2.5-IS:5182P-24
Month of Monitoring : **June 2022**
Test Required : PM₁₀, PM_{2.5}, SO₂, NO₂ and CO
Sample collected by Vimta labs ltd

TEST REPORT

Location Code:AAQ-6	RESULTS ($\mu\text{g}/\text{m}^3$)				
Date of Sampling	Particulates Matter as PM _{2.5}	Particulates Matter as PM ₁₀	Sulphur Dioxide as SO ₂	Nitrogen Dioxide as NO ₂	CO Carbon Monoxide
01.06.2022	30.2	69.1	12.5	14.4	0.436
03.06.2022	29.3	61.4	15.2	13.8	0.371
06.06.2022	25.7	63.8	14.1	15.6	0.407
08.06.2022	30.8	67.8	14.7	16.3	0.386
13.06.2022	29.4	62.5	14.3	15.5	0.376
15.06.2022	24.9	68.8	12.8	14.3	0.393
22.06.2022	25.6	61.4	12.0	13.6	0.339
24.06.2022	30.2	58.3	13.8	15.3	0.385
27.06.2022	27.4	62.5	15.3	17.3	0.439
29.06.2022	29.5	68.3	14.9	16.3	0.415
Minimum	24.9	58.3	12.0	13.6	0.339
Maximum	30.8	69.1	15.3	17.3	0.439
Mean	28.3	64.4	14.0	15.2	0.395
98%ile	30.7	69.0	15.3	17.1	0.438
NAAQ Standard					

- All the above values are expressed in $\mu\text{g}/\text{m}^3$ except CO is mg/m^3


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SAMPLE PARTICULARS : AMBIENT NOISE LEVEL MONITORING

Frequency Of Sampling	: Monthly Once in Each Location
Time Weighted Average	: 24 Hours
Method of Analysis	: IS:9989
Month of Monitoring	: June 2022
Test Required	: L-Day and L-Night
Sample collected by Vimta labs ltd	

TEST REPORT

Sr.No	Name of the Location	Date of Monitoring	L-day	L-night
			dB(A)	
1	Top of the Fire Station (Air Side)	08.06.2022	66.3	62.9
2	Top of SCADA Building	03.06.2022	63.8	59.1
3	Near Terminal-1 Building	01.06.2022	64.8	58.2
4	Project office	06.06.2022	62.5	57.8
5	Rahimabad	13.06.2022	60.3	53.9
6	Nadarganj	15.06.2022	53.2	43.6
Noise Standards for Airport Zone			70.0	65.0

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SAMPLE PARTICULARS : STP WATER

Frequency Of Sampling : One Grab sample in a Month
Month of Sampling : June 2022
Quantity Collected for Analysis : 5 Liter
Type of Container used for sampling : HDPE Plastic Container-3 L
Amberlite Glass Container-2 L
Test Required : pH; Total Suspended Solids; Total Dissolved Solids; Total Nitrogen; Chemical Oxygen Demand; Biological Oxygen Demand; Oil and Grease; and Ammonical Nitroge, Residual Chlorine and Fecal Coliform.
Sample Collected On : 03.06.2022
Analysis Start Date : 06.06.2022
Analysis Completion Date : 15.06.2022
Sample collected by Vimta Labs Ltd.,

TEST REPORT

Sr.No	Parameters	Method Adopted	UoM	STP Inlet Water	STP Outlet Water	Limits as per G.S.R. 1265(E)
1	pH	IS:3025 P-11	--	7.42	7.51	6.5 - 9.0
2	Total Suspended Solids	IS:3025 P-17	mg/L	136	18	< 50
3	Total Dissolved Solids	IS:3025 P-16	mg/L	352	321	--
4	Total Nitrogen	APHA 4500-B	mg/L	11.3	5.3	--
5	Chemical Oxygen Demand	APHA 5220B	mg/L	241	48	--
6	Biological Oxygen Demand at 27°C, 3 days	IS:3025 P-44	mg/L	76	12	< 20
7	Oil and Grease	APHA 5520-C	mg/L	<0.1	<0.1	--
8	Ammonical Nitrogen	APHA 4500-F	mg/L	8.3	<0.1	--
9	Residual Chlorine	IS:3025 P-26	mg/L	<0.1	<0.1	-
10	Chlorides (as Cl)	IS 3025 (Part 32	mg/L	135	102	-
11	Fecal Coliform	EPA Method 1681: 2006	MPN/100ml	281	<1.8	<1000

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SAMPLE PARTICULARS : Drinking Water

Frequency Of Sampling : One Grab sample in a Quarter
Month of Sampling : **June 2022**
Quantity Collected for Analysis : 5 Liter
Type of Container used for sampling : HDPE Plastic Container-3 L
Amberlite Glass Container-2 L
Test Required : As per IS 10500:2012
Sample Collected On : 07.06.2022
Analysis Start Date : 09.06.2022
Analysis Completion Date : 20.06.2022
Sample collected by Vimta Labs Ltd.,

TEST REPORT

Sr.No	Parameter	UoM	Method of Testing	Terminal-1 DW1	Terminal-2 DW2	ATC building DW3	Limits as per IS 10500 : 2012
1	pH	-	IS 3025 (Part-11)	7.34	7.05	7.34	6.5 – 8.5 (NR)
2	Colour	Hazen	IS:3025 (Part 4):1983	Colourless	Colourless	Colourless	5(15)
3	Taste	-	IS 3025 (Part 7 & 8):	Agreeable	Agreeable	Agreeable	Agreeable
4	Odour	-	IS 3025 (Part 5)	Agreeable	Agreeable	Agreeable	Agreeable
5	Conductivity	µS/cm	APHA 23 rd (2510B)	245	197	275	\$
6	Turbidity	NTU	IS 3025 (Part 10)	<1	<1	<1	1(5)
7	TDS	mg/l	IS 3025 (Part 16)	154	121	169	500(2000)
8	Total Hardness (as CaCO ₃)	mg/l	IS 3025 (Part-21)	87.6	74.8	99.2	200(600)
9	Total Alkalinity as CaCO ₃	mg/l	IS 3025 (Part-23)	72	59	76	200(600)
10	Calcium (as Ca)	mg/l	IS 3025 (part-40)	18.9	20.7	22.4	75(200)
11	Magnesium (as Mg)	mg/l	IS 3025 (Part-46)	9.8	5.6	10.5	30(100)
12	Free residual Chlorine	mg/l	IS:3025 (Part 26, 1.2)	<0.1	<0.1	<0.1	0.2(1)
13	Boron (as B)	mg/l	IS:13428:2005	<0.01	<0.01	<0.01	0.5(1)
14	Chlorides (as Cl)	mg/l	IS 3025 (Part 32)	24.7	18.6	27.9	250(1000)
15	Sulphates (as SO ₄)	mg/l	IS 3025 (part-24)	11.6	9.7	16.7	200(400)
16	Fluorides (as F)	mg/l	APHA 23 rd (4500)	0.2	0.1	0.3	1.0(1.5)

Note: \$ - Limits not specified;

NR - No Relaxation

Limits are shown in IS 10500 are Acceptable limits (Requirement) and in parenthesis are Permissible limit in absence of alternate Source

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UTTARPRADESH-226009**

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Issued Date : 2022.07.06
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SAMPLE PARTICULARS : Drinking Water

TEST REPORT

Sr.No	Parameter	UoM	Method of Testing	Terminal-1 DW1	Terminal-2 DW2	ATC building DW3	Limits as per IS 10500 : 2012
17	Nitrates (as NO ₃)	mg/l	APHA 23 rd (4500)	4.3	2.9	4.8	45(NR)
18	Sodium as Na	mg/l	APHA 23 rd (3500 Na)	15.6	9.8	16.3	\$
19	Potassium as K	mg/l	APHA 23 rd (3500 K)	1.2	1.6	2.3	\$
20	Phenolic Compounds	mg/l	IS:3025 (Part 43)	<0.001	<0.001	<0.001	0.001(0.002)
21	Cyanides(as CN)	mg/l	IS:3025 (Part 27,3	<0.02	<0.02	<0.02	0.05 (NR)
22	Anionic Detergents	mg/l	IS:13428:2005	<0.02	<0.02	<0.02	0.2 (1.0)
23	Mineral Oil	mg/l	IS 3025 (Part 39):	<0.01	<0.01	<0.01	0.5 (NR)
24	Cadmium (as Cd)	mg/l	APHA 23 rd 3125	<0.003	<0.003	<0.003	0.003 (NR)
25	Total Arsenic (as As)	mg/l	APHA 23 rd 3125	<0.01	<0.01	<0.01	0.01 (0.05)
26	Copper (as Cu)	mg/l	IS:3025 Part 2:2004	<0.01	<0.01	<0.01	0.05 (1.5)
27	Lead (as Pb)	mg/l	APHA 23 rd 3125	<0.01	<0.01	<0.01	0.01 (NR)
28	Manganese (as Mn)	mg/l	APHA 23 rd 3125	<0.01	<0.01	<0.01	0.1 (0.3)
29	Iron (as Fe)	mg/l	APHA 23 rd 3125	0.02	0.01	0.02	0.3(NR)
30	Total Chromium (as Cr)	mg/l	APHA 23 rd 3125	<0.01	<0.01	<0.01	0.05(NR)
31	Selenium (as Se)	mg/l	IS:15303:2003	<0.01	<0.01	<0.01	0.01(NR)
32	Zinc (as Zn)	mg/l	IS:3025 Part 2:2004	0.03	0.05	0.02	5(15)
33	Aluminum (as Al)	mg/l	IS:3025 (Part 55)	<0.001	<0.001	<0.001	0.03(0.2)
34	Mercury (as Hg)	mg/l	APHA 23 rd 3125	<0.001	<0.001	<0.001	0.001(NR)
35	Pesticides	µg/l	APHA 23 rd	Absent	Absent	Absent	Absent
36	E. Coil	-	IS 15185:: 2016	Absent	Absent	Absent	Absent
37	Total Coliforms	MPN/100	IS:15185:2016	Absent	Absent	Absent	10

Note: \$ - Limits not specified;

NR - No Relaxation

Limits are shown in IS 10500 are Acceptable limits (Requirement) and in parenthesis are Permissible limit in absence of alternate source.

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SAMPLE PARTICULARS : Drinking Water

Frequency Of Sampling : One Grab sample in a Quarter
Month of Sampling : **June 2022**
Quantity Collected for Analysis : 5 Liter
Type of Container used for sampling : HDPE Plastic Container-3 L
Amberlite Glass Container-2 L
Test Required : As per IS 10500:2012
Sample Collected On : 07.06.2022
Analysis Start Date : 09.06.2022
Analysis Completion Date : 20.06.2022
Sample collected by Vimta Labs Ltd.,

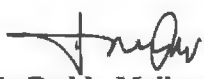
TEST REPORT

Sr.No	Parameter	UoM	Method of Testing	DGCA building DW4	Project Office DW5	Admin Office DW6	Limits as per IS 10500 : 2012
1	pH	-	IS 3025 (Part-11)	7.26	7.14	6.97	6.5 – 8.5 (NR)
2	Colour	Hazen	IS:3025 (Part 4):1983	Colourless	Colourless	Colourless	5(15)
3	Taste	-	IS 3025 (Part 7 & 8):	Agreeable	Agreeable	Agreeable	Agreeable
4	Odour	-	IS 3025 (Part 5)	Agreeable	Agreeable	Agreeable	Agreeable
5	Conductivity	µS/cm	APHA 23 rd (2510B)	218	321	282	\$
6	Turbidity	NTU	IS 3025 (Part 10)	<1	<1	<1	1(5)
7	TDS	mg/l	IS 3025 (Part 16)	137	198	176	500(2000)
8	Total Hardness (as CaCO ₃)	mg/l	IS 3025 (Part-21)	81.8	121.6	105.3	200(600)
9	Total Alkalinity as CaCO ₃	mg/l	IS 3025 (Part-23)	65	116	82	200(600)
10	Calcium (as Ca)	mg/l	IS 3025 (part-40)	19.7	24.6	23.2	75(200)
11	Magnesium (as Mg)	mg/l	IS 3025 (Part-46)	7.9	14.6	11.5	30(100)
12	Free residual Chlorine	mg/l	IS:3025 (Part 26, 1.2)	<0.1	<0.1	<0.1	0.2(1)
13	Boron (as B)	mg/l	IS:13428:2005	<0.01	<0.01	<0.01	0.5(1)
14	Chlorides (as Cl)	mg/l	IS 3025 (Part 32)	19.8	17.4	28.7	250(1000)
15	Sulphates (as SO ₄)	mg/l	IS 3025 (part-24)	10.5	12.8	14.6	200(400)
16	Fluorides (as F)	mg/l	APHA 23 rd (4500)	0.1	0.2	0.1	1.0(1.5)

Note: \$ - Limits not specified;

NR - No Relaxation

Limits are shown in IS 10500 are Acceptable limits (Requirement) and in parenthesis are Permissible limit in absence of alternate source.


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SAMPLE PARTICULARS : Drinking Water

TEST REPORT

Sr.No	Parameter	UoM	Method of Testing	DGCA building DW4	Project Office DW5	Admin Office DW6	Limits as per IS 10500 : 2012
17	Nitrates (as NO ₃)	mg/l	APHA 23 rd (4500)	5.1	6.3	3.2	45(NR)
18	Sodium as Na	mg/l	APHA 23 rd (3500 Na)	11.6	16.2	15.7	\$
19	Potassium as K	mg/l	APHA 23 rd (3500 K)	1.1	2.7	1.6	\$
20	Phenolic Compounds	mg/l	IS:3025 (Part 43)	<0.001	<0.001	<0.001	0.001(0.002)
21	Cyanides(as CN)	mg/l	IS:3025 (Part 27,3)	<0.02	<0.02	<0.02	0.05 (NR)
22	Anionic Detergents	mg/l	IS:13428:2005	<0.02	<0.02	<0.02	0.2 (1.0)
23	Mineral Oil	mg/l	IS 3025 (Part 39):	<0.01	<0.01	<0.01	0.5 (NR)
24	Cadmium (as Cd)	mg/l	APHA 23 rd 3125	<0.003	<0.003	<0.003	0.003 (NR)
25	Total Arsenic (as As)	mg/l	APHA 23 rd 3125	<0.01	<0.01	<0.01	0.01 (0.05)
26	Copper (as Cu)	mg/l	IS:3025 Part 2:2004	<0.01	<0.01	<0.01	0.05 (1.5)
27	Lead (as Pb)	mg/l	APHA 23 rd 3125	<0.01	<0.01	<0.01	0.01 (NR)
28	Manganese (as Mn)	mg/l	APHA 23 rd 3125	<0.01	<0.01	<0.01	0.1 (0.3)
29	Iron (as Fe)	mg/l	APHA 23 rd 3125	0.02	0.01	0.02	0.3(NR)
30	Total Chromium (as Cr)	mg/l	APHA 23 rd 3125	<0.01	<0.01	<0.01	0.05(NR)
31	Selenium (as Se)	mg/l	IS:15303:2003	<0.01	<0.01	<0.01	0.01(NR)
32	Zinc (as Zn)	mg/l	IS:3025 Part 2:2004	0.03	0.07	0.02	5(15)
33	Aluminum (as Al)	mg/l	IS:3025 (Part 55)	<0.01	<0.01	<0.01	0.03(0.2)
34	Mercury (as Hg)	mg/l	APHA 23 rd 3125	<0.001	<0.001	<0.001	0.001(NR)
35	Pesticides	µg/l	APHA 23 rd	Absent	Absent	Absent	Absent
36	E. Coil	-	IS 15185:: 2016	Absent	Absent	Absent	Absent
37	Total Coliforms	MPN/100	IS:15185:2016	Absent	Absent	Absent	10

Note: \$ - Limits not specified;

NR - No Relaxation

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**Dr. SubbaReddy Mallampati
Dy. Manager-Environment**

ISSUED TO:

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UTTAR PRADESH-226009**

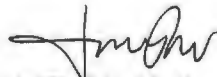
Report Number : VLL/VLS/22/04900/011
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SAMPLE PARTICULARS : Cooling Tower Water
Frequency Of Sampling : One Grab sample in a Month
Month of Sampling : June 2022
Quantity Collected for Analysis : 5 Liter
Type of Container used for sampling : HDPE Plastic Container-3 L
Amberlite Glass Container-2 L
Test Required : As per IS 10500:2012
Sample Collected On : 07.06.2022
Analysis Start Date : 09.06.2022
Analysis Completion Date : 20.06.2022
Sample collected by Vimta Labs Ltd.,

TEST REPORT

Sr.No.	Parameter	UoM	Method of Testing	Cooling Tower Water Near CCR	Cooling Tower Water Near Scada	Limits as per IS 10500 : 2012
1	pH	--	IS 3025 (Part-11)	7.74	7.53	6.5-8.5 (NR)
2	Salinity	ppt	APHA 23 rd (2520B)	0.158	0.169	--
3	Conductivity	µs/cm	APHA 23 rd (2510B)	883	942	--
4	Total Dissolved Solids	mg/l	IS 3025 (Part 16)	569	610	500(2000)
5	Chlorides as Cl	mg/l	IS 3025 (Part 32)	87.6	93.7	200(600)
6	Mercury as Hg	mg/l	APHA 23 rd 3125	<0.001	<0.001	0.001(NR)
7	Arsenic as As	mg/l	APHA 23 rd 3125	<0.01	<0.01	0.01(0.05)
8	Lead as Pb	mg/l	APHA 23 rd 3125	<0.01	<0.01	0.01(NR)
9	Chromium as Cr	mg/l	APHA 23 rd 3125	<0.01	<0.01	0.05(NR)
10	Cadmium as Cd	mg/l	APHA 23 rd 3125	<0.003	<0.003	0.003(0.003)
11	Total Alkalinity as CaCO ₃	mg/l	IS 3025 (Part-23)	247.0	265.0	200(600)
12	Calcium as Ca	mg/l	IS 3025 (part	58.6	67.4	75(200)
13	Magnesium as Mg	mg/l	IS 3025 (Part	29.2	36.8	30(100)
14	Sodium as Na	mg/l	APHA 23 rd (3500 Na)	72.3	63.6	--
15	Potassium as K	mg/l	APHA 23 rd (3500 K)	13.6	9.5	--
16	Sulphates as SO ₄	mg/l	IS 3025 (part-24)	58.7	63.5	200(400)
17	Nitrates as NO ₃	mg/l	APHA 23 rd (4500)	6.9	4.7	45(NR)


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SAMPLE PARTICULARS : Cooling Tower Water

TEST REPORT

Sr.No.	Parameter	UoM	Method of Testing	Cooling Tower Water Near CCR	Cooling Tower Water Near Scada	Limits as per IS 10500 : 2012
18	Phosphates as PO ₄	mg/l	APHA 23 rd (4500 -P D)	0.03	0.02	--
19	Barium as Ba	mg/l	APHA 23 rd 3125	0.007	0.005	0.7(NR)
20	Fluoride as F	mg/l	APHA 23 rd (4500)	0.8	0.6	1.0(1.5)
21	Cobalt as Co	mg/l	APHA 23 rd 3125	<0.01	<0.01	--
22	Copper as Cu	mg/l	APHA 23 rd 3125	<0.01	<0.01	0.05(1.5)
23	Manganese as Mn	mg/l	APHA 23 rd 3125	<0.01	<0.01	0.1(0.3)
24	Nickel as Ni	mg/l	APHA 23 rd 3125	<0.01	<0.01	0.02(NR)
25	Total Hardness as CaCO ₃	mg/l	IS 3025 (Part-21)	266.7	319.9	200(600)
26	Iron as Fe	mg/l	APHA 23 rd 3125	0.05	0.03	1.0
27	Silica as SiO ₂	mg/l	APHA 23 rd (4500 - SiO ₂)	4.6	3.7	--


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SAMPLE PARTICULARS : Ground Water

Frequency Of Sampling : One Grab sample in a Quarter
Month of Sampling : **June 2022**
Quantity Collected for Analysis : 5 Liter
Type of Container used for sampling : HDPE Plastic Container-3 L
Amberlite Glass Container-2 L
Test Required : As per IS 10500:2012
Sample Collected On : 13.06.2022
Analysis Start Date : 15.06.2022
Analysis Completion Date : 23.06.2022
Sample collected by Vimta Labs Ltd.,

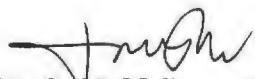
TEST REPORT

Sr.No	Parameter	UoM	Method of Testing	Near CCR Room, Terminal-1	Near Pump House, Terminal-2	Limits as per IS 10500 : 2012
1	pH	-	IS 3025 (Part-11)	7.38	7.21	6.5 – 8.5 (NR)
2	Colour	Hazen	IS:3025 (Part 4):1983	1	1	5(15)
3	Taste	-	IS 3025 (Part 7 & 8):	Agreeable	Agreeable	Agreeable
4	Odour	-	IS 3025 (Part 5)	Agreeable	Agreeable	Agreeable
5	Conductivity	µS/cm	APHA 23 rd (2510B)	473	392	\$
6	Turbidity	NTU	IS 3025 (Part 10)	2	1	1(5)
7	TDS	mg/l	IS 3025 (Part 16)	298	247	500(2000)
8	Total Hardness (as CaCO ₃)	mg/l	IS 3025 (Part-21)	120.3	105.7	200(600)
9	Total Alkalinity as CaCO ₃	mg/l	IS 3025 (Part-23)	110	84	200(600)
10	Calcium (as Ca)	mg/l	IS 3025 (part-40)	26.4	23.5	75(200)
11	Magnesium (as Mg)	mg/l	IS 3025 (Part-46)	13.2	11.4	30(100)
12	Free residual Chlorine	mg/l	IS:3025 (Part 26, 1.2)	<0.1	<0.1	0.2(1)
13	Boron (as B)	mg/l	IS:13428:2005	0.05	0.03	0.5(1)
14	Chlorides (as Cl)	mg/l	IS 3025 (Part 32)	59.6	61.8	250(1000)
15	Sulphates (as SO ₄)	mg/l	IS 3025 (part-24)	29.2	16.3	200(400)
16	Fluorides (as F)	mg/l	APHA 23 rd (4500)	0.7	0.3	1.0(1.5)

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SAMPLE PARTICULARS : Ground Water

TEST REPORT

Sr.No	Parameter	UoM	Method of Testing	Near CCR Room, Terminal-1	Near Pump House, Terminal-2	Limits as per IS 10500 : 2012
17	Nitrates (as NO ₃)	mg/l	APHA 23 rd (4500)	9.7	7.4	45(NR)
18	Sodium as Na	mg/l	APHA 23 rd (3500 Na)	51.5	39.6	\$
19	Potassium as K	mg/l	APHA 23 rd (3500 K)	3.6	2.8	\$
20	Phenolic Compounds	mg/l	IS:3025 (Part 43)	<0.001	<0.001	0.001(0.002)
21	Cyanides(as CN)	mg/l	IS:3025 (Part 27,3)	<0.02	<0.02	0.05 (NR)
22	Anionic Detergents	mg/l	IS:13428:2005	<0.02	<0.02	0.2 (1.0)
23	Mineral Oil	mg/l	IS 3025 (Part 39):	<0.01	<0.01	0.5 (NR)
24	Cadmium (as Cd)	mg/l	APHA 23 rd 3125	<0.003	<0.003	0.003 (NR)
25	Total Arsenic (as As)	mg/l	APHA 23 rd 3125	<0.01	<0.01	0.01 (0.05)
26	Copper (as Cu)	mg/l	IS:3025 Part 2:2004	<0.01	<0.01	0.05 (1.5)
27	Lead (as Pb)	mg/l	APHA 23 rd 3125	<0.01	<0.01	0.01 (NR)
28	Manganese (as Mn)	mg/l	APHA 23 rd 3125	<0.01	<0.01	0.1 (0.3)
29	Iron (as Fe)	mg/l	APHA 23 rd 3125	0.12	0.09	0.3(NR)
30	Total Chromium (as Cr)	mg/l	APHA 23 rd 3125	<0.01	<0.01	0.05(NR)
31	Selenium (as Se)	mg/l	IS:15303:2003	<0.01	<0.01	0.01(NR)
32	Zinc (as Zn)	mg/l	IS:3025 Part 2:2004	0.24	0.14	5(15)
33	Aluminum (as Al)	mg/l	IS:3025 (Part 55)	0.01	0.02	0.03(0.2)
34	Mercury (as Hg)	mg/l	APHA 23 rd 3125	<0.001	<0.001	0.001(NR)
35	Pesticides	µg/l	APHA 23 rd	Absent	Absent	Absent
36	E. Coil	-	IS 15185:: 2016	Absent	Absent	Absent
37	Total Coliforms	MPN/100	IS:15185:2016	<2	<2	10

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SAMPLE PARTICULARS : Ground Water

Frequency Of Sampling : One Grab sample in a Quarter
Month of Sampling : **June 2022**
Quantity Collected for Analysis : 5 Liter
Type of Container used for sampling : HDPE Plastic Container-3 L
Amberlite Glass Container-2 L
Test Required : As per IS 10500:2012
Sample Collected On : 13.06.2022
Analysis Start Date : 15.06.2022
Analysis Completion Date : 24.06.2022
Sample collected by Vimta Labs Ltd.,

TEST REPORT

Sr.No	Parameter	UoM	Method of Testing	ATC-1 DW1	ATC-2 DW2	DGCA DW3	Limits as per IS 10500 : 2012
1	pH	-	IS 3025 (Part-11)	7.23	7.54	7.36	6.5 – 8.5 (NR)
2	Colour	Hazen	IS:3025 (Part 4):1983	Colourless	Colourless	Colourless	5(15)
3	Taste	-	IS 3025 (Part 7 & 8):	Agreeable	Agreeable	Agreeable	Agreeable
4	Odour	-	IS 3025 (Part 5)	Agreeable	Agreeable	Agreeable	Agreeable
5	Conductivity	µS/cm	APHA 23 rd (2510B)	426	388	510	\$
6	Turbidity	NTU	IS 3025 (Part 10)	1	1	2	1(5)
7	TDS	mg/l	IS 3025 (Part 16)	268	247	330	500(2000)
8	Total Hardness (as CaCO ₃)	mg/l	IS 3025 (Part-21)	160.0	162.7	189.5	200(600)
9	Total Alkalinity as CaCO ₃	mg/l	IS 3025 (Part-23)	145	150	171	200(600)
10	Calcium (as Ca)	mg/l	IS 3025 (part-40)	36.5	29.7	43.2	75(200)
11	Magnesium (as Mg)	mg/l	IS 3025 (Part-46)	16.7	21.5	19.8	30(100)
12	Free residual Chlorine	mg/l	IS:3025 (Part 26, 1.2)	<0.1	<0.1	<0.1	0.2(1)
13	Boron (as B)	mg/l	IS:13428:2005	<0.01	<0.01	<0.01	0.5(1)
14	Chlorides (as Cl)	mg/l	IS 3025 (Part 32)	32.2	21.5	38.7	250(1000)
15	Sulphates (as SO ₄)	mg/l	IS 3025 (part-24)	16.3	9.6	19.8	200(400)
16	Fluorides (as F)	mg/l	APHA 23 rd (4500)	0.5	0.3	0.8	1.0(1.5)

Note: \$ - Limits not specified;

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SAMPLE PARTICULARS : Ground Water

TEST REPORT

Sr.No	Parameter	UoM	Method of Testing	Terminal-1 DW1	Terminal-2 DW2	ATC building DW3	Limits as per IS 10500 : 2012
17	Nitrates (as NO ₃)	mg/l	APHA 23 rd (4500)	5.6	3.4	7.2	45(NR)
18	Sodium as Na	mg/l	APHA 23 rd (3500 Na)	23.4	13.6	27.5	\$
19	Potassium as K	mg/l	APHA 23 rd (3500 K)	2.2	1.6	4.2	\$
20	Phenolic Compounds	mg/l	IS:3025 (Part 43)	<0.001	<0.001	<0.001	0.001(0.002)
21	Cyanides(as CN)	mg/l	IS:3025 (Part 27,3)	<0.02	<0.02	<0.02	0.05 (NR)
22	Anionic Detergents	mg/l	IS:13428:2005	<0.02	<0.02	<0.02	0.2 (1.0)
23	Mineral Oil	mg/l	IS 3025 (Part 39):	<0.01	<0.01	<0.01	0.5 (NR)
24	Cadmium (as Cd)	mg/l	APHA 23 rd 3125	<0.003	<0.003	<0.003	0.003 (NR)
25	Total Arsenic (as As)	mg/l	APHA 23 rd 3125	<0.01	<0.01	<0.01	0.01 (0.05)
26	Copper (as Cu)	mg/l	IS:3025 Part 2:2004	<0.01	<0.01	<0.01	0.05 (1.5)
27	Lead (as Pb)	mg/l	APHA 23 rd 3125	<0.01	<0.01	<0.01	0.01 (NR)
28	Manganese (as Mn)	mg/l	APHA 23 rd 3125	<0.01	<0.01	<0.01	0.1 (0.3)
29	Iron (as Fe)	mg/l	APHA 23 rd 3125	0.03	0.02	0.05	0.3(NR)
30	Total Chromium (as Cr)	mg/l	APHA 23 rd 3125	<0.01	<0.01	<0.01	0.05(NR)
31	Selenium (as Se)	mg/l	IS:15303:2003	<0.01	<0.01	<0.01	0.01(NR)
32	Zinc (as Zn)	mg/l	IS:3025 Part 2:2004	0.07	0.05	0.12	5(15)
33	Aluminum (as Al)	mg/l	IS:3025 (Part 55)	0.02	0.02	0.03	0.03(0.2)
34	Mercury (as Hg)	mg/l	APHA 23 rd 3125	<0.001	<0.001	<0.001	0.001(NR)
35	Pesticides	µg/l	APHA 23 rd	Absent	Absent	Absent	Absent
36	E. Coil	-	IS 15185:: 2016	Absent	Absent	Absent	Absent
37	Total Coliforms	MPN/100	IS:15185:2016	Absent	Absent	Absent	10

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SAMPLE PARTICULARS : Ground Water
Frequency Of Sampling : One Grab sample in a Quarter
Month of Sampling : **June 2022**
Quantity Collected for Analysis : 5 Liter
Type of Container used for sampling : HDPE Plastic Container-3 L
Amberlite Glass Container-2 L
Test Required : As per IS 10500:2012
Sample Collected On : 13.06.2022
Analysis Start Date : 15.06.2022
Analysis Completion Date : 24.06.2022
Sample collected by Vimta Labs Ltd.,

TEST REPORT

Sr.No	Parameter	UoM	Method of Testing	Community Center-1 DW4	Community Center-2 DW5	Community Center-3 DW6	Limits as per IS 10500 : 2012
1	pH	-	IS 3025 (Part-11)	6.96	7.42	7.63	6.5 – 8.5 (NR)
2	Colour	Hazen	IS:3025 (Part 4):1983	Colourless	Colourless	Colourless	5(15)
3	Taste	-	IS 3025 (Part 7 & 8):	Agreeable	Agreeable	Agreeable	Agreeable
4	Odour	-	IS 3025 (Part 5)	Agreeable	Agreeable	Agreeable	Agreeable
5	Conductivity	µS/cm	APHA 23 rd (2510B)	371	408	349	\$
6	Turbidity	NTU	IS 3025 (Part 10)	1	2	1	1(5)
7	TDS	mg/l	IS 3025 (Part 16)	237	254	218	500(2000)
8	Total Hardness (as CaCO ₃)	mg/l	IS 3025 (Part-21)	137.2	136.4	128.5	200(600)
9	Total Alkalinity as CaCO ₃	mg/l	IS 3025 (Part-23)	131	140	125	200(600)
10	Calcium (as Ca)	mg/l	IS 3025 (part-40)	32.5	24.6	26.2	75(200)
11	Magnesium (as Mg)	mg/l	IS 3025 (Part-46)	13.6	18.2	15.3	30(100)
12	Free residual Chlorine	mg/l	IS:3025 (Part 26, 1.2)	<0.1	<0.1	<0.1	0.2(1)
13	Boron (as B)	mg/l	IS:13428:2005	<0.01	<0.01	<0.01	0.5(1)
14	Chlorides (as Cl)	mg/l	IS 3025 (Part 32)	26.4	32.3	22.8	250(1000)
15	Sulphates (as SO ₄)	mg/l	IS 3025 (part-24)	12.2	13.8	12.5	200(400)
16	Fluorides (as F)	mg/l	APHA 23 rd (4500)	0.4	0.6	0.8	1.0(1.5)

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SAMPLE PARTICULARS : Ground Water

TEST REPORT

Sr.No	Parameter	UoM	Method of Testing	Community Center-1 DW4	Community Center-2 DW5	Community Center-3 DW6	Limits as per IS 10500 : 2012
17	Nitrates (as NO ₃)	mg/l	APHA 23 rd (4500)	4.6	3.4	2.9	45(NR)
18	Sodium as Na	mg/l	APHA 23 rd (3500 Na)	21.5	29.8	19.7	\$
19	Potassium as K	mg/l	APHA 23 rd (3500 K)	1.6	2.5	2.9	\$
20	Phenolic Compounds	mg/l	IS:3025 (Part 43)	<0.001	<0.001	<0.001	0.001(0.002)
21	Cyanides(as CN)	mg/l	IS:3025 (Part 27,3	<0.02	<0.02	<0.02	0.05 (NR)
22	Anionic Detergents	mg/l	IS:13428:2005	<0.02	<0.02	<0.02	0.2 (1.0)
23	Mineral Oil	mg/l	IS 3025 (Part 39):	<0.01	<0.01	<0.01	0.5 (NR)
24	Cadmium (as Cd)	mg/l	APHA 23 rd 3125	<0.003	<0.003	<0.003	0.003 (NR)
25	Total Arsenic (as As)	mg/l	APHA 23 rd 3125	<0.01	<0.01	<0.01	0.01 (0.05)
26	Copper (as Cu)	mg/l	IS:3025 Part 2:2004	<0.01	<0.01	<0.01	0.05 (1.5)
27	Lead (as Pb)	mg/l	APHA 23 rd 3125	<0.01	<0.01	<0.01	0.01 (NR)
28	Manganese (as Mn)	mg/l	APHA 23 rd 3125	<0.01	<0.01	<0.01	0.1 (0.3)
29	Iron (as Fe)	mg/l	APHA 23 rd 3125	0.01	0.04	0.03	0.3(NR)
30	Total Chromium (as Cr)	mg/l	APHA 23 rd 3125	<0.01	<0.01	<0.01	0.05(NR)
31	Selenium (as Se)	mg/l	IS:15303:2003	<0.01	<0.01	<0.01	0.01(NR)
32	Zinc (as Zn)	mg/l	IS:3025 Part 2:2004	0.06	0.17	0.08	5(15)
33	Aluminum (as Al)	mg/l	IS:3025 (Part 55)	0.02	0.01	0.02	0.03(0.2)
34	Mercury (as Hg)	mg/l	APHA 23 rd 3125	<0.001	<0.001	<0.001	0.001(NR)
35	Pesticides	µg/l	APHA 23 rd	Absent	Absent	Absent	Absent
36	E. Coil	-	IS 15185:: 2016	Absent	Absent	Absent	Absent
37	Total Coliforms	MPN/100	IS:15185:2016	Absent	Absent	Absent	10

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NR - No Relaxation

Limits are shown in IS 10500 are Acceptable limits (Requirement) and in parenthesis are Permissible limit in absence of alternate source.



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ISSUED TO:

**M/S. LUCKNOW INTERNATIONAL AIRPORT LIMITED.,
(CHAUDHARY CHARAN SINGH INTERNATIONAL
AIRPORT), AMAUSI, LUCKNOW,
UTTAR PRADESH-226009**

Report Number : VLL/VLS/22/04900/015
Issued Date : 2022.07.06
P. Order Ref : 5700309099
P.O. Date : 13.05.2022

SAMPLE PARTICULARS : Ground Water
Frequency Of Sampling : One Grab sample in a Quarter
Month of Sampling : **June 2022**
Quantity Collected for Analysis : 5 Liter
Type of Container used for sampling : HDPE Plastic Container-3 L
Amberlite Glass Container-2 L
Test Required : As per IS 10500:2012
Sample Collected On : 13.06.2022
Analysis Start Date : 15.06.2022
Analysis Completion Date : 24.06.2022
Sample collected by Vimta Labs Ltd.,

TEST REPORT

Sr.No	Parameter	UoM	Method of Testing	Community Center-4 DW7	Residential Colony-1 DW8	Residential Colony-2 DW9	Limits as per IS 10500 : 2012
1	pH	-	IS 3025 (Part-11)	7.48	7.19	6.94	6.5 – 8.5 (NR)
2	Colour	Hazen	IS:3025 (Part 4):1983	Colourless	Colourless	Colourless	5(15)
3	Taste	-	IS 3025 (Part 7 & 8):	Agreeable	Agreeable	Agreeable	Agreeable
4	Odour	-	IS 3025 (Part 5)	Agreeable	Agreeable	Agreeable	Agreeable
5	Conductivity	µS/cm	APHA 23 rd (2510B)	474	361	433	\$
6	Turbidity	NTU	IS 3025 (Part 10)	2	1	2	1(5)
7	TDS	mg/l	IS 3025 (Part 16)	297	226	276	500(2000)
8	Total Hardness (as CaCO ₃)	mg/l	IS 3025 (Part-21)	169.9	121.0	198.9	200(600)
9	Total Alkalinity as CaCO ₃	mg/l	IS 3025 (Part-23)	165	119	180	200(600)
10	Calcium (as Ca)	mg/l	IS 3025 (part-40)	34.7	23.2	52.4	75(200)
11	Magnesium (as Mg)	mg/l	IS 3025 (Part-46)	20.2	15.3	16.5	30(100)
12	Free residual Chlorine	mg/l	IS:3025 (Part 26, 1.2)	<0.1	<0.1	<0.1	0.2(1)
13	Boron (as B)	mg/l	IS:13428:2005	<0.01	<0.01	<0.01	0.5(1)
14	Chlorides (as Cl)	mg/l	IS 3025 (Part 32)	35.6	31.9	43.2	250(1000)
15	Sulphates (as SO ₄)	mg/l	IS 3025 (part-24)	14.3	10.7	23.2	200(400)
16	Fluorides (as F)	mg/l	APHA 23 rd (4500)	0.5	0.6	0.9	1.0(1.5)

Note: \$ - Limits not specified;

NR - No Relaxation

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SAMPLE PARTICULARS : Ground Water

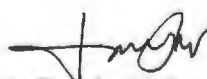
TEST REPORT

Sr.No	Parameter	UoM	Method of Testing	Community Center-4 DW7	Residential Colony-1 DW8	Residential Colony-2 DW9	Limits as per IS 10500 : 2012
17	Nitrates (as NO ₃)	mg/l	APHA 23 rd (4500)	5.2	4.6	3.9	45(NR)
18	Sodium as Na	mg/l	APHA 23 rd (3500 Na)	28.6	26.4	30.3	\$
19	Potassium as K	mg/l	APHA 23 rd (3500 K)	3.4	1.9	5.3	\$
20	Phenolic Compounds	mg/l	IS:3025 (Part 43)	<0.001	<0.001	<0.001	0.001(0.002)
21	Cyanides(as CN)	mg/l	IS:3025 (Part 27,3)	<0.02	<0.02	<0.02	0.05 (NR)
22	Anionic Detergents	mg/l	IS:13428:2005	<0.02	<0.02	<0.02	0.2 (1.0)
23	Mineral Oil	mg/l	IS 3025 (Part 39):	<0.01	<0.01	<0.01	0.5 (NR)
24	Cadmium (as Cd)	mg/l	APHA 23 rd 3125	<0.003	<0.003	<0.003	0.003 (NR)
25	Total Arsenic (as As)	mg/l	APHA 23 rd 3125	<0.01	<0.01	<0.01	0.01 (0.05)
26	Copper (as Cu)	mg/l	IS:3025 Part 2:2004	<0.01	<0.01	<0.01	0.05 (1.5)
27	Lead (as Pb)	mg/l	APHA 23 rd 3125	<0.01	<0.01	<0.01	0.01 (NR)
28	Manganese (as Mn)	mg/l	APHA 23 rd 3125	<0.01	<0.01	<0.01	0.1 (0.3)
29	Iron (as Fe)	mg/l	APHA 23 rd 3125	0.06	0.01	0.03	0.3(NR)
30	Total Chromium (as Cr)	mg/l	APHA 23 rd 3125	<0.01	<0.01	<0.01	0.05(NR)
31	Selenium (as Se)	mg/l	IS:15303:2003	<0.01	<0.01	<0.01	0.01(NR)
32	Zinc (as Zn)	mg/l	IS:3025 Part 2:2004	0.06	0.11	0.16	5(15)
33	Aluminum (as Al)	mg/l	IS:3025 (Part 55)	0.03	0.02	0.03	0.03(0.2)
34	Mercury (as Hg)	mg/l	APHA 23 rd 3125	<0.001	<0.001	<0.001	0.001(NR)
35	Pesticides	µg/l	APHA 23 rd	Absent	Absent	Absent	Absent
36	E. Coil	-	IS 15185:: 2016	Absent	Absent	Absent	Absent
37	Total Coliforms	MPN/100	IS:15185:2016	Absent	Absent	Absent	10

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SAMPLE PARTICULARS : DG NOISE LEVEL MONITORING
Monitored at 1 meter Distance from Acoustic Enclosure

Frequency Of Sampling : Quarterly Once for Each DG Set
Type of Measurement : SPOT NOISE
Month of Monitoring : June 2022
Test Required : Sound Pressure Levels in Off and On Conditions
Sample collected by Vimta labs ltd

TEST REPORT

Sr.No	DG Set Code& Capacity	Sampling Date	Location of DG Installed	Sound Pressure Level in d(B)A.	
				Background Noise Level	DG Running Noise Level
01	DG Set-1 750 KVA	16.06.2022	SCADA Power House	58.2	72.4
02	DG Set-2 750 KVA			59.1	74.1
03	DG Set-3 750 KVA			57.1	73.2
04	DG Set-4 750 KVA			60.3	73.9
05	DG Set-5 750 KVA			58.1	74.3
06	DG Set-1 320 KVA	21.06.2022	DGCA office	56.6	70.4
07	DG Set-2 320 KVA			54.7	73.1
08	DG Set-1 200 KVA	17.06.2022	ATC Technical Block	56.0	72.5
09	DG Set-2 200 KVA			58.3	74.0
10	DG Set-1 200 KVA	23.06.2022	MSSR Building	55.8	72.5
11	DG Set-1 320 KVA	18.06.2022	CCR Office	58.1	73.7
12	DG Set-2 320 KVA			56.2	73.0
DG Noise Standard up to 1000 KVA					75.0

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Report Number : VLL/VLS/22/04900/017
Issue Date : 2022.07.06
P.O. Ref : 5700309099
P.O. Date : 13.05.2022

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Sample Name :	Ambient Air Quality Monitoring
Test Required :	Particulate Matter(PM10), Particulate Matter(PM2.5), Sulphur dioxide as SO ₂ , Nitrogen dioxides as NO ₂ , Ozone (O ₃), Carbon monoxide (CO), Ammonia (NH ₃), Lead (Pb), Arsenic (As), Nickel (Ni), Benzene (C ₆ H ₆) and Benzo (A) Pyrene (BaP).
Sampling Date :	2022-06-10
Analysis Starting Date :	2022-06-13
Sampling Duration (minutes)	1440
Sampling Location :	TOP OF THE FIRE STATION-AIR SIDE

TEST REPORT

Sr. No	Test parameters	UoM	Method of Testing	Results	NAAQS Limits
1	Particulate Matter as PM10	µg/m ³	IS-5182(P-23)	63.7	100
2	Particulate Matter as PM2.5	µg/m ³	IS-5182(P-24)	30.5	60
3	Sulphur dioxide as SO ₂	µg/m ³	IS-5182 (Part-02)	16.3	80
4	Nitrogen dioxide as NO ₂	µg/m ³	IS-5182 (Part-06)	20.4	80
5	Ozone (O ₃)	µg/m ³	Method-411	12.5	100
6	Carbon monoxide (CO)	mg/m ³	IS-5182 (Part-10)	0.451	02
7	Ammonia (NH ₃)	µg/m ³	Indophenol Blue Method	BDL	400
8	Lead (Pb)	µg/m ³	IS-5182 (Part-22)	BDL	01
9	Arsenic (As)	ng/m ³	IS-5182 (Part-22)	BDL	06
10	Nickel (Ni)	ng/m ³	IS-5182 (Part-22)	BDL	20
11	Benzene (C ₆ H ₆)	µg/m ³	ASTM D 3686-95	BDL	05
12	Benzo (A) Pyrene (BaP)	ng/m ³	USEPA 8270D	BDL	01

Remarks:

Carbon Monoxide detectable Limit 10µg/m³
Lead Detectable Limit 0.01µg/m³
Arsenic and Nickel Detectable Limit 2ng/m³
Benzene Detectable Limit 2 µg/m³
B(a)P Detectable Limit 0. 2ng/m³

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Report Number : VLL/VLS/22/04900/018
Issue Date : 2022.07.06
P.O. Ref : 5700309099
P.O. Date : 13.05.2022

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Sample Name :	Ambient Air Quality Monitoring
Test Required :	Particulate Matter(PM10), Particulate Matter(PM2.5), Sulphur dioxide as SO ₂ , Nitrogen dioxides as NO ₂ , Ozone (O ₃), Carbon monoxide (CO), Ammonia (NH ₃), Lead (Pb), Arsenic (As), Nickel (Ni), Benzene (C ₆ H ₆) and Benzo (A) Pyrene (BaP).
Sampling Date :	2022-06-10
Analysis Starting Date :	2022-06-13
Sampling Duration (minutes)	1440
Sampling Location :	TOP OF SCADA BUILDING

TEST REPORT

Sr. No	Test parameters	UoM	Method of Testing	Results	NAAQS Limits
1	Particulate Matter as PM10	µg/m ³	IS-5182(P-23)	62.1	100
2	Particulate Matter as PM2.5	µg/m ³	IS-5182(P-24)	29.4	60
3	Sulphur dioxide as SO ₂	µg/m ³	IS-5182 (Part-02)	14.8	80
4	Nitrogen dioxide as NO ₂	µg/m ³	IS-5182 (Part-06)	17.6	80
5	Ozone (O ₃)	µg/m ³	Method-411	9.8	100
6	Carbon monoxide (CO)	mg/m ³	IS-5182 (Part-10)	0.421	02
7	Ammonia (NH ₃)	µg/m ³	Indophenol Blue Method	BDL	400
8	Lead (Pb)	µg/m ³	IS-5182 (Part-22)	BDL	01
9	Arsenic (As)	ng/m ³	IS-5182 (Part-22)	BDL	06
10	Nickel (Ni)	ng/m ³	IS-5182 (Part-22)	BDL	20
11	Benzene (C ₆ H ₆)	µg/m ³	ASTM D 3686-95	BDL	05
12	Benzo (A) Pyrene (BaP)	ng/m ³	USEPA 8270D	BDL	01

Remarks:

Carbon Monoxide detectable Limit 10µg/m³
Lead Detectable Limit 0.01µg/m³
Arsenic and Nickel Detectable Limit 2ng/m³
Benzene Detectable Limit 2 µg/m³
B(a)P Detectable Limit 0. 2ng/m³

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Sample Name :	Ambient Air Quality Monitoring
Test Required :	Particulate Matter(PM10), Particulate Matter(PM2.5), Sulphur dioxide as SO ₂ , Nitrogen dioxides as NO ₂ , Ozone (O ₃), Carbon monoxide (CO), Ammonia (NH ₃), Lead (Pb), Arsenic (As), Nickel (Ni), Benzene (C ₆ H ₆) and Benzo (A) Pyrene (BaP).
Sampling Date :	2022-06-10
Analysis Starting Date :	2022-06-13
Sampling Duration (minutes)	1440
Sampling Location :	Near Terminal-1 Building

TEST REPORT

Sr. No	Test parameters	UoM	Method of Testing	Results	NAAQS Limits
1	Particulate Matter as PM10	µg/m ³	IS-5182(P-23)	61.4	100
2	Particulate Matter as PM2.5	µg/m ³	IS-5182(P-24)	26.7	60
3	Sulphur dioxide as SO ₂	µg/m ³	IS-5182 (Part-02)	15.3	80
4	Nitrogen dioxide as NO ₂	µg/m ³	IS-5182 (Part-06)	18.1	80
5	Ozone (O ₃)	µg/m ³	Method-411	10.1	100
6	Carbon monoxide (CO)	mg/m ³	IS-5182 (Part-10)	0.466	02
7	Ammonia (NH ₃)	µg/m ³	Indophenol Blue Method	BDL	400
8	Lead (Pb)	µg/m ³	IS-5182 (Part-22)	BDL	01
9	Arsenic (As)	µg/m ³	IS-5182 (Part-22)	BDL	06
10	Nickel (Ni)	ng/m ³	IS-5182 (Part-22)	BDL	20
11	Benzene (C ₆ H ₆)	ng/m ³	ASTM D 3686-95	BDL	05
12	Benzo (A) Pyrene (BaP)	ng/m ³	USEPA 8270D	BDL	01

Remarks:

Carbon Monoxide detectable Limit 10µg/m³
Lead Detectable Limit 0.01µg/m³
Arsenic and Nickel Detectable Limit 2ng/m³
Benzene Detectable Limit 2 µg/m³
B(a)P Detectable Limit 0. 2ng/m³

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Sample Name :	Ambient Air Quality Monitoring
Test Required :	Particulate Matter(PM10), Particulate Matter(PM2.5), Sulphur dioxide as SO ₂ , Nitrogen dioxides as NO ₂ ,Ozone (O ₃),Carbon monoxide (CO),Ammonia (NH ₃),Lead (Pb),Arsenic (As),Nickel (Ni),Benzene (C ₆ H ₆) and Benzo (A) Pyrene (BaP).
Sampling Date :	2022-06-10
Analysis Starting Date :	2022-06-13
Sampling Duration (minutes)	1440
Sampling Location :	Near Project Office

TEST REPORT

Sr. No	Test parameters	UoM	Method of Testing	Results	NAAQS Limits
1	Particulate Matter as PM10	µg/m ³	IS-5182(P-23)	65.7	100
2	Particulate Matter as PM2.5	µg/m ³	IS-5182(P-24)	27.2	60
3	Sulphur dioxide as SO ₂	µg/m ³	IS-5182 (Part-02)	14.4	80
4	Nitrogen dioxide as NO ₂	µg/m ³	IS-5182 (Part-06)	17.6	80
5	Ozone (O ₃)	µg/m ³	Method-411	8.7	100
6	Carbon monoxide (CO)	mg/m ³	IS-5182 (Part-10)	0.443	02
7	Ammonia (NH ₃)	µg/m ³	Indophenol Blue Method	BDL	400
8	Lead (Pb)	µg/m ³	IS-5182 (Part-22)	BDL	01
9	Arsenic (As)	ng/m ³	IS-5182 (Part-22)	BDL	06
10	Nickel (Ni)	ng/m ³	IS-5182 (Part-22)	BDL	20
11	Benzene (C ₆ H ₆)	µg/m ³	ASTM D 3686-95	BDL	05
12	Benzo (A) Pyrene (BaP)	ng/m ³	USEPA 8270D	BDL	01

Remarks:

Carbon Monoxide detectable Limit 10µg/m³
Lead Detectable Limit 0.01µg/m³
Arsenic and Nickel Detectable Limit 2ng/m³
Benzene Detectable Limit 2 µg/m³
B(a)P Detectable Limit 0. 2ng/m³

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SAMPLE PARTICULARS : FLIGHT PATH AREA NOISE LEVEL MONITORING

Frequency Of Sampling : Quarterly Seven days Continuously in each Location
Time Weighted Average : 24 Hours
Method of Analysis : IS:9989
Month of Monitoring : **June 2022**
Test Required : L-Day and L-Night
Sample collected by Vimta labs ltd

TEST REPORT

Location Code	FPN-1		
Name of the Location	Shyam Nagar		
GPS Coordinates	26° 45'38.05"N 80°52'6.04"E		
Distance from Airport compound wall in meters→	350		
	Results-d(B)A		
Date of Monitoring	L-Day	L-night	L-equivalent
Day-1: 04 st June 2022	54.1	42.8	52.4
Day-2: 05 th June 2022	52.2	44.0	50.8
Day-3: 06 th June 2022	53.3	45.2	51.7
Day-4: 07 th June 2022	56.7	43.6	54.2
Day-5: 08 th June 2022	53.5	45.1	51.4
Day-6: 09 th June 2022	57.2	43.4	55.8
Day-7: 10 th June 2022	53.0	42.9	51.6

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SAMPLE PARTICULARS : FLIGHT PATH AREA NOISE LEVEL MONITORING

Frequency Of Sampling : Quarterly Seven days Continuously in each Location
 Time Weighted Average : 24 Hours
 Method of Analysis : IS:9989
 Month of Monitoring : **June 2022**
 Test Required : L-Day and L-Night
 Sample collected by Vimta Labs ltd

TEST REPORT

Location Code	FPN-2		
Name of the Location	Omaxe City		
GPS Coordinates	26° 45'39.23"N 80°54'59.80"E		
Distance from Airport compound wall in meters→	85		
	Results-d(B)A		
Date of Monitoring	L-Day	L-night	L-equivalent
Day-1: 11 th June 2022	56.4	43.8	54.5
Day-2: 12 th June 2022	54.7	44.0	52.2
Day-3: 13 th June 2022	55.3	42.6	53.7
Day-4: 14 th June 2022	57.2	43.8	55.1
Day-5: 15 th June 2022	56.8	43.1	54.3
Day-6: 16 th June 2022	54.1	42.6	52.4
Day-7: 17 th June 2022	55.7	44.2	53.2

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SAMPLE PARTICULARS : FLIGHT PATH AREA NOISE LEVEL MONITORING

Frequency Of Sampling : Quarterly Seven days Continuously in each Location
 Time Weighted Average : 24 Hours
 Method of Analysis : IS:9989
 Month of Monitoring : **June 2022**
 Test Required : L-Day and L-Night
 Sample collected by Vimta labs ltd

TEST REPORT

Location Code	FPN-3		
Name of the Location	Near Bijnor road		
GPS Coordinates	26° 45'42.09"N 80°55'28.97"E		
Distance from Airport compound wall in meters-->	895		
	Results-d(B)A		
Date of Monitoring	L-Day	L-night	L-equivalent
Day-1: 20 th June 2022	57.2	46.6	55.3
Day-2: 21 st June 2022	55.6	44.1	53.1
Day-3: 22 nd June 2022	53.1	45.3	51.8
Day-4: 23 rd June 2022	54.3	46.8	52.5
Day-5: 24 th June 2022	52.1	44.7	50.2
Day-6: 25 th June 2022	53.6	45.4	51.7
Day-7: 26 th June 2022	55.0	46.6	53.5

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Report Number : VLL/VLS/22/04900/024
Issued Date : 2022.07.06
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P. Order Date : 13.05.2022

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SAMPLE PARTICULARS : DIESEL GENERATOR EMISSION MONITORING
PLACE OF DG SET INSTALLED : SCADA Building

Sampling Date : 2022.06.16
Frequency of Monitoring : Quarterly
Monitoring Month : June 2022
Sample Registration Date : 2022.06.18
Sample Collected by Vimta Labs Ltd.

TEST REPORT

Sr. No.	PARAMETERS	UoM	METHOD OF TESTING	DG1	DG2	DG3	DG4	DG5	* Limits
Physical Parameter									
1	Capacity	KVA	-	750	750	750	750	750	--
2	Stack diameter	m	-	0.8	0.8	0.8	0.8	0.8	--
3	Area of the Stack	m ²	-	0.454	0.454	0.454	0.454	0.454	--
4	Flue gas Temperature	°C	USEPA M-2	142	138	151	147	136	--
5	Velocity of the Flue gas	m/Sec		6.22	7.41	6.93	7.49	6.44	--
6	Volumetric Flow rate	Nm ³ /hr		9633.8	11483.8	10744.1	11608.9	9971.0	--
Chemical Parameters									
7	Sulphur Dioxide @ 15% O2	mg/Nm ³	USEPA CTM 30&34	14.7	15.0	18.9	13.9	13.6	--
8	Carbon Monoxide @ 15% O2	mg/Nm ³		75.67	62.96	75.77	64.13	66.55	≤ 3.5
9	Carbon Monoxide @ 15% O2	gr/kw-hr		0.972	0.964	1.085	0.993	0.885	
10	Oxides of Nitrogen@ 15% O2	mg/Nm ³		144.76	138.89	146.06	135.65	149.23	NO _x + HC
	Oxides of Nitrogen@ 15% O2	gr/kw-hr		1.859	2.127	2.092	2.100	1.984	
11	Hydro Carbons as CH4@ 15% O2	mg/ Nm ³		14.81	18.89	24.25	20.04	20.69	
	Hydro Carbons as CH4@ 15% O2	gr/kw-hr	0.190	0.289	0.347	0.310	0.275		
12	Particulate Matter@15% O2	mg/ Nm ³	USEPA M-5	13.95	12.23	12.28	11.86	13.67	≤ 0.2
	Particulate Matter @ 15% O2	gr/kw-hr		0.179	0.187	0.176	0.184	0.182	

*Limits as CPCB DG Emission Guidelines as Per GSR 771(E)


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SAMPLE PARTICULARS : DIESEL GENERATOR EMISSION MONITORING
PLACE OF DG SET INSTALLED : DGCA Building

Sampling Date : 2022.06.21
Frequency of Monitoring : Quarterly
Monitoring Month : June 2022
Sample Registration Date : 2022.06.23
Sample Collected by Vimta Labs Ltd.

TEST REPORT

Sr. No.	PARAMETERS	UoM	METHOD OF TESTING	DG1	DG2	* Limits
Physical Parameter						
1	Capacity	KVA	-	320	320	--
2	Stack diameter	m	-	0.45	0.45	--
3	Area of the Stack	m ²	-	0.159	0.159	--
4	Flue gas Temperature	°C	USEPA M-2	123	133	--
5	Velocity of the Flue gas	m/Sec		5.94	7.69	--
6	Volumetric Flow rate	Nm ³ /hr		3226.7	4179.5	--
Chemical Parameters						
7	Sulphur Dioxide @ 15% O2	mg/Nm ³	USEPA CTM30&34	9.4	13.6	--
8	Carbon Monoxide @ 15% O2	mg/Nm ³		56.45	64.29	≤ 3.5
9	Carbon Monoxide @ 15% O2	gr/kw-hr		0.642	0.840	
10	Oxides of Nitrogen@ 15% O2	mg/Nm ³		115.18	127.37	NOx + HC ≤ 4.0
	Oxides of Nitrogen@ 15% O2	gr/kw-hr		1.310	1.664	
11	Hydro Carbons as CH4@ 15% O2	mg/ Nm ³		19.12	21.75	
	Hydro Carbons as CH4@ 15% O2	gr/kw-hr	0.218	0.284		
12	Particulate Matter@15% O2	mg/ Nm ³	USEPA M-5	14.20	12.41	≤ 0.2
	Particulate Matter @ 15% O2	gr/kw-hr		0.162	0.162	

*Limits as CPCB DG Emission Guidelines as Per GSR 771(E)

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SAMPLE PARTICULARS : DIESEL GENERATOR EMISSION MONITORING
PLACE OF DG SET INSTALLED : ATC Technical Block

Sampling Date : 2022.06.17
Frequency of Monitoring : Quarterly
Monitoring Month : June 2022
Sample Registration Date : 2022.06.20
Sample Collected by Vimta Labs Ltd.

TEST REPORT

Sr. No.	PARAMETERS	UoM	METHOD OF TESTING	DG1	DG2	* Limits
Physical Parameter						
1	Capacity	KVA	-	200	200	--
2	Stack diameter	m	-	0.43	0.43	--
3	Area of the Stack	m ²	-	0.1453	0.1453	--
4	Flue gas Temperature	°C	USEPA M-2	122	116	--
5	Velocity of the Flue gas	m/Sec		5.80	7.10	--
6	Volumetric Flow rate	Nm ³ /hr		2874.9	3521.8	--
Chemical Parameters						
7	Sulphur Dioxide @ 15% O2	mg/Nm ³	USEPA CTM30&34	8.7	10.4	--
8	Carbon Monoxide @ 15% O2	mg/Nm ³		43.76	43.02	≤ 3.5
9	Carbon Monoxide @ 15% O2	gr/kw-hr		0.629	0.758	
10	Oxides of Nitrogen@ 15% O2	mg/Nm ³	USEPA CTM30&34	102.52	116.83	NO _x + HC ≤ 4.0
	Oxides of Nitrogen@ 15% O2	gr/kw-hr		1.474	2.057	
11	Hydro Carbons as CH ₄ @ 15% O2	mg/ Nm ³	USEPA CTM30&34	16.21	18.44	
	Hydro Carbons as CH ₄ @ 15% O2	gr/kw-hr		0.233	0.325	
12	Particulate Matter@15% O2	mg/ Nm ³	USEPA M-5	9.21	8.08	≤ 0.2
	Particulate Matter @ 15% O2	gr/kw-hr		0.132	0.142	

*Limits as CPCB DG Emission Guidelines as Per GSR 771(E)

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SAMPLE PARTICULARS : DIESEL GENERATOR EMISSION MONITORING
PLACE OF DG SET INSTALLED : CCR office
Sampling Date : 2022.06.18
Frequency of Monitoring : Quarterly
Monitoring Month : June 2022
Sample Registration Date : 2022.06.20
Sample Collected by Vimta Labs Ltd.

TEST REPORT

Sr. No.	PARAMETERS	UoM	METHOD OF TESTING	DG1	DG2	* Limits
Physical Parameter						
1	Capacity	KVA	-	320	320	--
2	Stack diameter	m	-	0.45	0.45	--
3	Area of the Stack	m ²	-	0.16	0.16	--
4	Flue gas Temperature	°C	USEPA M-2	125	130	--
5	Velocity of the Flue gas	m/Sec		6.72	7.88	--
6	Volumetric Flow rate	Nm ³ /hr		3649.4	4278.1	--
Chemical Parameters						
7	Sulphur Dioxide @ 15% O2	mg/Nm ³	USEPA CTM30&34	9.1	10.4	--
8	Carbon Monoxide @ 15% O2	mg/Nm ³		54.25	59.16	≤ 3.5
9	Carbon Monoxide @ 15% O2	gr/kw-hr		0.619	0.791	
10	Oxides of Nitrogen@ 15% O2	mg/Nm ³		115.59	125.16	NO _x + HC ≤ 4.0
	Oxides of Nitrogen@ 15% O2	gr/kw-hr		1.318	1.673	
11	Hydro Carbons as CH ₄ @ 15% O2	mg/ Nm ³		16.95	18.64	
	Hydro Carbons as CH ₄ @ 15% O2	gr/kw-hr	0.193	0.249		
12	Particulate Matter@15% O2	mg/ Nm ³	USEPA M-5	13.29	10.70	≤ 0.2
	Particulate Matter @ 15% O2	gr/kw-hr		0.152	0.143	

*Limits as CPCB DG Emission Guidelines as Per GSR 771(E)

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SAMPLE PARTICULARS : DIESEL GENERATOR EMISSION MONITORING
PLACE OF DG SET INSTALLED : MSSR Building

Sampling Date	: 2022.06.23
Frequency of Monitoring	: Quarterly
Monitoring Month	: June 2022
Sample Registration Date	: 2022.06.25
Sample Collected by Vimta Labs Ltd.	

TEST REPORT

Sr. No.	PARAMETERS	UoM	METHOD OF TESTING	DG1	* Limits
Physical Parameter					
1	Capacity	KVA	-	200	--
2	Stack diameter	m	-	0.55	--
3	Area of the Stack	m ²	-	0.24	--
4	Flue gas Temperature	°C	USEPA M-2	118	--
5	Velocity of the Flue gas	m/Sec		6.04	--
6	Volumetric Flow rate	Nm ³ /hr		4897.3	--
Chemical Parameters					
7	Sulphur Dioxide @ 15% O2	mg/Nm ³	USEPA CTM30&34	9.1	--
8	Carbon Monoxide @ 15% O2	mg/Nm ³		42.27	≤ 3.5
9	Carbon Monoxide @ 15% O2	gr/kw-hr		1.035	
10	Oxides of Nitrogen@ 15% O2	mg/Nm ³		84.22	NOx + HC ≤ 4.0
	Oxides of Nitrogen@ 15% O2	gr/kw-hr		2.062	
11	Hydro Carbons as CH4@ 15% O2	mg/ Nm ³		17.99	
	Hydro Carbons as CH4@ 15% O2	gr/kw-hr	0.440		
12	Particulate Matter@15% O2	mg/ Nm ³	USEPA M-5	7.27	≤ 0.2
	Particulate Matter @ 15% O2	gr/kw-hr		0.178	

*Limits as CPCB DG Emission Guidelines as Per GSR 771(E)


Dr. SubbaReddy Mallampati
Dy.Manager-Environment

July-2022

Environmental Monitoring Test Reports



Project Proponent:

M/s. Lucknow International Airport Limited,
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Consultant:

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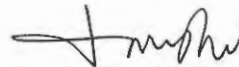
**SAMPLE PARTICULARS : AMBIENT AIR QUALITY MONITORING
TOP OF THE FIRE STATION-AIRSIDE**

Frequency Of Sampling	: Weekly Twice
Time Weighted Average	: 24 Hours
Sampling & Analysis Method	: PM10 - IS:5182 P-23; PM2.5-IS:5182P-24; SO2 - IS:5182 P2; and NO2 - IS:5182 P-6
Month of Monitoring	: July 2022
Test Required	: PM ₁₀ , PM _{2.5} , SO ₂ , NO ₂ and CO
Sample collected by	Vimta labs ltd

TEST REPORT

Location Code:AAQ-1	RESULTS (µg/m ³)				
	Particulates Matter as PM _{2.5}	Particulates Matter as PM ₁₀	Sulphur Dioxide as SO ₂	Nitrogen Dioxide as NO ₂	CO Carbon Monoxide
04.07.2022	27.8	61.8	14.7	18.5	0.471
06.07.2022	29.4	65.5	16.1	22.4	0.444
11.07.2022	26.5	61.1	17.4	21.5	0.417
13.07.2022	29.4	64.2	16.5	19.8	0.453
18.07.2022	32.3	65.2	15.5	23.2	0.476
20.07.2022	27.2	62.7	18.2	21.5	0.457
25.07.2022	29.5	60.8	17.1	19.1	0.422
27.07.2022	28.7	64.9	16.3	20.3	0.442
Minimum	26.5	60.8	14.7	18.5	0.417
Maximum	32.3	65.5	18.2	23.2	0.476
Mean	28.9	63.3	16.5	20.8	0.448
98%ile	31.9	65.5	18.1	23.1	0.475
NAAQ Standard	60	100	80	80	2

- All the above values are expressed in µg/m³ except CO is mg/m³


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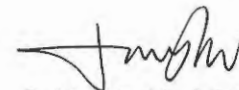
**SAMPLE PARTICULARS : AMBIENT AIR QUALITY MONITORING
TOP OF SCADA BUILDING**

Frequency Of Sampling	: Weekly Twice
Time Weighted Average	: 24 Hours
Sampling & Analysis Method	: PM10 - IS:5182 P-23; PM2.5 - IS:5182P-24; SO2 - IS:5182 P2; and NO2 - IS:5182 P-6
Month of Monitoring	: July 2022
Test Required	: PM ₁₀ , PM _{2.5} , SO ₂ , NO ₂ and CO
Sample collected by	Vimta labs ltd

TEST REPORT

Location Code:AAQ-2	RESULTS (µg/m ³)				
	Particulates Matter as PM _{2.5}	Particulates Matter as PM ₁₀	Sulphur Dioxide as SO ₂	Nitrogen Dioxide as NO ₂	CO Carbon Monoxide
04.07.2022	28.7	58.3	15.4	18.0	0.406
06.07.2022	25.3	62.5	17.1	17.3	0.421
11.07.2022	28.7	59.3	14.7	18.4	0.400
13.07.2022	31.5	61.5	15.6	17.2	0.441
18.07.2022	25.6	62.1	17.3	19.1	0.392
20.07.2022	30.4	59.1	15.5	17.5	0.428
25.07.2022	28.3	60.4	14.9	15.8	0.416
27.07.2022	26.9	57.7	16.7	18.3	0.407
Minimum	25.3	57.7	14.7	15.8	0.392
Maximum	31.5	62.5	17.3	19.1	0.441
Mean	28.2	60.1	15.9	17.7	0.414
98%ile	31.3	62.4	17.3	19.0	0.439
NAAQ Standard	60	100	80	80	2

- All the above values are expressed in µg/m³ except CO is mg/m³



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**SAMPLE PARTICULARS : AMBIENT AIR QUALITY MONITORING
 NEAR TERMINAL-1 BUILDING**

Frequency Of Sampling	: Weekly Twice
Time Weighted Average	: 24 Hours
Sampling & Analysis Method	: PM10 - IS:5182 P-23; PM2.5 - IS:5182P-24; SO2 - IS:5182 P2; and NO2 - IS:5182 P-6
Month of Monitoring	: July 2022
Test Required	: PM ₁₀ , PM _{2.5} , SO ₂ , NO ₂ and CO,
Sample collected by	: Vimta labs ltd

TEST REPORT

Location Code:AAQ-3	RESULTS($\mu\text{g}/\text{m}^3$)				
	Particulates Matter as PM _{2.5}	Particulates Matter as PM ₁₀	Sulphur Dioxide as SO ₂	Nitrogen Dioxide as NO ₂	CO Carbon Monoxide
04.07.2022	28.1	61.8	14.8	16.4	0.441
06.07.2022	24.8	57.2	15.9	17.0	0.411
11.07.2022	27.2	59.1	14.2	18.3	0.402
13.07.2022	25.8	56.3	15.1	17.4	0.428
18.07.2022	27.3	61.2	17.0	18.2	0.447
20.07.2022	29.1	58.1	15.1	16.3	0.453
25.07.2022	28.6	57.3	16.2	18.1	0.471
27.07.2022	26.1	59.3	13.8	16.4	0.462
Minimum	24.8	56.3	13.8	16.3	0.402
Maximum	29.1	61.8	17.0	18.3	0.471
Mean	27.1	58.8	15.3	17.3	0.439
98%ile	29.0	61.7	16.9	18.3	0.470
NAAQ Standard	60	100	80	80	2

- All the above values are expressed in $\mu\text{g}/\text{m}^3$ except CO is mg/m^3



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**SAMPLE PARTICULARS : AMBIENT AIR QUALITY MONITORING
PROJECT OFFICE**

Frequency Of Sampling : Weekly Twice
Time Weighted Average : 24 Hours
Sampling & Analysis Method : PM10-IS:5182 P-23; and PM2.5-IS:5182P-24
Month of Monitoring : July 2022
Test Required : PM₁₀, PM_{2.5}, SO₂, NO₂ and CO
Sample collected by Vimta labs ltd

TEST REPORT

Location Code:AAQ-4	RESULTS (µg/m ³)				
	Particulates Matter as PM _{2.5}	Particulates Matter as PM ₁₀	Sulphur Dioxide as SO ₂	Nitrogen Dioxide as NO ₂	CO Carbon Monoxide
04.07.2022	29.1	63.2	15.9	18.2	0.414
06.07.2022	27.8	56.9	16.6	19.8	0.431
11.07.2022	25.8	65.2	13.5	19.6	0.472
13.07.2022	29.1	62.8	14.3	18.4	0.387
18.07.2022	30.5	58.2	15.8	16.3	0.402
20.07.2022	27.1	63.2	16.7	20.0	0.465
25.07.2022	26.5	61.5	15.3	19.5	0.418
27.07.2022	28.1	59.2	14.8	16.8	0.388
Minimum	25.8	56.9	13.5	16.3	0.387
Maximum	30.5	65.2	16.7	20.0	0.472
Mean	28.0	61.3	15.4	18.6	0.422
98%ile	30.3	64.9	16.7	20.0	0.471
NAAQ Standard	60	100	80	80	2

- All the above values are expressed in µg/m³ except CO is mg/m³

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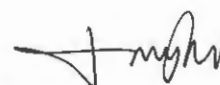
**SAMPLE PARTICULARS : AMBIENT AIR QUALITY MONITORING
RAHIMABAD**

Frequency Of Sampling	: Weekly Twice
Time Weighted Average	: 24 Hours
Sampling & Analysis Method	: PM10-IS:5182 P-23; and PM2.5-IS:5182P-24
Month of Monitoring	: July 2022
Test Required	: PM ₁₀ , PM _{2.5} , SO ₂ , NO ₂ and CO
Sample collected by Vimta labs ltd	

TEST REPORT

Location Code:AAQ-5	RESULTS (µg/m ³)				
	Particulates Matter as PM _{2.5}	Particulates Matter as PM ₁₀	Sulphur Dioxide as SO ₂	Nitrogen Dioxide as NO ₂	CO Carbon Monoxide
04.07.2022	30.3	63.2	16.4	19.4	0.366
06.07.2022	28.3	60.2	15.2	20.5	0.401
11.07.2022	34.1	59.7	12.8	16.2	0.427
13.07.2022	30.5	66.1	14.7	19.1	0.345
18.07.2022	33.3	65.3	15.0	21.2	0.377
20.07.2022	29.6	63.5	13.9	17.1	0.431
25.07.2022	31.5	58.7	12.5	20.4	0.419
27.07.2022	33.7	61.4	15.0	19.4	0.392
Minimum	28.3	58.7	12.5	16.2	0.345
Maximum	34.1	66.1	16.4	21.2	0.431
Mean	31.4	62.3	14.4	19.2	0.395
98%ile	34.0	66.0	16.2	21.1	0.430
NAAQ Standard	60	100	80	80	2

- All the above values are expressed in µg/m³ except CO is mg/m³



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**M/S.LUCKNOW INTERNATIONAL AIRPORT LIMITED.,
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UTTARPRADESH-226009**

Report Number : VLL/VLS/22/06624/006
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**SAMPLE PARTICULARS : AMBIENT AIR QUALITY MONITORING
NADARGANJ**

Frequency Of Sampling	: Weekly Twice
Time Weighted Average	: 24 Hours
Sampling & Analysis Method	: PM10-IS:5182 P-23; and PM2.5-IS:5182P-24
Month of Monitoring	: July 2022
Test Required	: PM ₁₀ , PM _{2.5} , SO ₂ , NO ₂ and CO
Sample collected by Vimta labs ltd	

TEST REPORT

Location Code:AAQ-6	RESULTS (µg/m ³)				
	Particulates Matter as PM _{2.5}	Particulates Matter as PM ₁₀	Sulphur Dioxide as SO ₂	Nitrogen Dioxide as NO ₂	CO Carbon Monoxide
04.07.2022	26.8	66.8	14.2	17.1	0.356
06.07.2022	31.8	59.3	13.8	16.2	0.404
11.07.2022	27.4	66.1	15.8	18.3	0.443
13.07.2022	25.7	64.8	13.7	15.1	0.401
18.07.2022	27.5	67.1	12.8	14.0	0.391
20.07.2022	30.6	59.2	15.5	16.1	0.421
25.07.2022	28.3	64.3	13.7	15.4	0.354
27.07.2022	26.9	61.4	14.9	17.1	0.400
Minimum	25.7	59.2	12.8	14.0	0.354
Maximum	31.8	67.1	15.8	18.3	0.443
Mean	28.1	63.6	14.3	16.2	0.396
98%ile	31.6	67.1	15.8	18.1	0.440
NAAQ Standard	60	100	80	80	2

- All the above values are expressed in µg/m³ except CO is mg/m³

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Report Number : VLL/VLS/22/06624/007
 Issued Date : 2022.08.04
 P. Order Ref : 5700309099
 P.O. Date : 13.05.2022

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SAMPLE PARTICULARS : AMBIENT NOISE LEVEL MONITORING

Frequency Of Sampling : Monthly Once in Each Location
 Time Weighted Average : 24 Hours
 Method of Analysis : IS:9989
 Month of Monitoring : **July 2022**
 Test Required : L-Day and L-Night
 Sample collected by Vimta labs ltd

TEST REPORT

Sr.No	Name of the Location	Date of Monitoring	L-day	L-night
			dB(A)	
1	Top of the Fire Station (Air Side)	15.07.2022	68.2	63.7
2	Top of SCADA Building	07.07.2022	62.2	57.5
3	Near Terminal-1 Building	04.07.2022	63.6	56.3
4	Project office	12.07.2022	64.2	55.8
5	Rahimabad	18.07.2022	53.8	44.2
6	Nadarganj	22.07.2022	52.3	42.6
Noise Standards for Airport Zone			70.0	65.0

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UTTAR PRADESH-226009**

Report Number : VLL/VLS/22/06624/008
Issued Date : 2022.08.05
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SAMPLE PARTICULARS : STP WATER

Frequency Of Sampling : One Grab sample in a Month
Month of Sampling : **July 2022**
Quantity Collected for Analysis : 5 Liter
Type of Container used for sampling : HDPE Plastic Container-3 L
Amberlite Glass Container-2 L
Test Required : pH; Total Suspended Solids; Total Dissolved Solids; Total Nitrogen; Chemical Oxygen Demand; Biological Oxygen Demand; Oil and Grease; and Ammonical Nitrogen, Residual Chlorine and Fecal Coliform.
Sample Collected On : 20.07.2022
Analysis Start Date : 22.07.2022
Analysis Completion Date : 30.07.2022
Sample collected by Vimta Labs Ltd.,

TEST REPORT

Sr.No	Parameters	Method Adopted	UoM	STP Inlet Water	STP Outlet Water	Limits as per G.S.R. 1265(E)
1	pH	IS:3025 P-11	--	7.83	7.67	6.5 - 9.0
2	Total Suspended Solids	IS:3025 P-17	mg/L	118	15	< 50
3	Total Dissolved Solids	IS:3025 P-16	mg/L	382	307	--
4	Total Nitrogen	APHA 4500-B	mg/L	9.3	4.1	--
5	Chemical Oxygen Demand	APHA 5220B	mg/L	277	56	--
6	Biological Oxygen Demand at 27°C, 3 days	IS:3025 P-44	mg/L	83	15	< 20
7	Oil and Grease	APHA 5520-C	mg/L	<0.1	<0.1	--
8	Ammonical Nitrogen	APHA 4500-F	mg/L	6.2	<0.1	--
9	Residual Chlorine	IS:3025 P-26	mg/L	<0.1	<0.1	-
10	Chlorides (as Cl)	IS 3025 (Part 32)	mg/L	114	86	-
11	Fecal Coliform	EPA Method 1681: 2006	MPN/100ml	197	<1.8	<1000



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UTTAR PRADESH-226009

Report Number : VLL/VLS/22/06624/009
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SAMPLE PARTICULARS : Drinking Water

Frequency Of Sampling : One Grab sample in a Quarter
Month of Sampling : July 2022
Quantity Collected for Analysis : 5 Liter
Type of Container used for sampling : HDPE Plastic Container-3 L
Amberlite Glass Container-2 L
Test Required : As per IS 10500:2012
Sample Collected On : 25.07.2022
Analysis Start Date : 27.07.2022
Analysis Completion Date : 04.08.2022
Sample collected by Vimta Labs Ltd.,

TEST REPORT

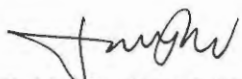
Sr.No	Parameter	UoM	Method of Testing	Terminal-1 DW1	Terminal-2 DW2	ATC building DW3	Limits as per IS 10500 : 2012
1	pH	-	IS 3025 (Part-11)	7.22	7.31	7.06	6.5 – 8.5 (NR)
2	Colour	Hazen	IS:3025 (Part 4):1983	Colourless	Colourless	Colourless	5(15)
3	Taste	-	IS 3025 (Part 7 & 8):	Agreeable	Agreeable	Agreeable	Agreeable
4	Odour	-	IS 3025 (Part 5)	Agreeable	Agreeable	Agreeable	Agreeable
5	Conductivity	µS/cm	APHA 23 rd (2510B)	204	174	238	\$
6	Turbidity	NTU	IS 3025 (Part 10)	<1	<1	<1	1(5)
7	TDS	mg/l	IS 3025 (Part 16)	126	111	154	500(2000)
8	Total Hardness (as CaCO ₃)	mg/l	IS 3025 (Part-21)	70.8	59.7	84.5	200(600)
9	Total Alkalinity as CaCO ₃	mg/l	IS 3025 (Part-23)	66.3	54.6	70.1	200(600)
10	Calcium (as Ca)	mg/l	IS 3025 (part-40)	15.5	16.3	19.8	75(200)
11	Magnesium (as Mg)	mg/l	IS 3025 (Part-46)	7.8	4.6	8.5	30(100)
12	Free residual Chlorine	mg/l	IS:3025 (Part 26, 1.2)	<0.1	<0.1	<0.1	0.2(1)
13	Boron (as B)	mg/l	IS:13428:2005	<0.01	<0.01	<0.01	0.5(1)
14	Chlorides (as Cl)	mg/l	IS 3025 (Part 32)	17.3	15.2	22.8	250(1000)
15	Sulphates (as SO ₄)	mg/l	IS 3025 (part-24)	8.6	7.2	13.5	200(400)
16	Fluorides (as F)	mg/l	APHA 23 rd (4500)	0.1	<0.1	0.1	1.0(1.5)

Note: \$ - Limits not specified;

NR - No Relaxation

Limits are shown in IS 10500 are Acceptable limits (Requirement) and in parenthesis are

Permissible limit in absence of alternate Source


Dr. Subba Reddy Mallampati
Dy. Manager-Environment

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SAMPLE PARTICULARS : Drinking Water

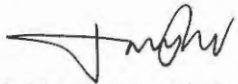
TEST REPORT

Sr.No	Parameter	UoM	Method of Testing	Terminal-1 DW1	Terminal-2 DW2	ATC building DW3	Limits as per IS 10500 : 2012
17	Nitrates (as NO ₃)	mg/l	APHA 23 rd (4500)	2.7	3.3	2.6	45(NR)
18	Sodium as Na	mg/l	APHA 23 rd (3500 Na)	13.2	11.5	14.8	\$
19	Potassium as K	mg/l	APHA 23 rd (3500 K)	2.1	1.3	1.8	\$
20	Phenolic Compounds	mg/l	IS:3025 (Part 43)	<0.001	<0.001	<0.001	0.001(0.002)
21	Cyanides(as CN)	mg/l	IS:3025 (Part 27,3)	<0.02	<0.02	<0.02	0.05 (NR)
22	Anionic Detergents	mg/l	IS:13428:2005	<0.02	<0.02	<0.02	0.2 (1.0)
23	Mineral Oil	mg/l	IS 3025 (Part 39):	<0.01	<0.01	<0.01	0.5 (NR)
24	Cadmium (as Cd)	mg/l	APHA 23 rd 3125	<0.003	<0.003	<0.003	0.003 (NR)
25	Total Arsenic (as As)	mg/l	APHA 23 rd 3125	<0.01	<0.01	<0.01	0.01 (0.05)
26	Copper (as Cu)	mg/l	IS:3025 Part 2:2004	<0.01	<0.01	<0.01	0.05 (1.5)
27	Lead (as Pb)	mg/l	APHA 23 rd 3125	<0.01	<0.01	<0.01	0.01 (NR)
28	Manganese (as Mn)	mg/l	APHA 23 rd 3125	<0.01	<0.01	<0.01	0.1 (0.3)
29	Iron (as Fe)	mg/l	APHA 23 rd 3125	0.01	<0.01	<0.01	0.3(NR)
30	Total Chromium (as Cr)	mg/l	APHA 23 rd 3125	<0.01	<0.01	<0.01	0.05(NR)
31	Selenium (as Se)	mg/l	IS:15303:2003	<0.01	<0.01	<0.01	0.01(NR)
32	Zinc (as Zn)	mg/l	IS:3025 Part 2:2004	0.01	0.03	0.04	5(15)
33	Aluminum (as Al)	mg/l	IS:3025 (Part 55)	<0.001	<0.001	<0.001	0.03(0.2)
34	Mercury (as Hg)	mg/l	APHA 23 rd 3125	<0.001	<0.001	<0.001	0.001(NR)
35	Pesticides	µg/l	APHA 23 rd	Absent	Absent	Absent	Absent
36	E. Coil	-	IS 15185:: 2016	Absent	Absent	Absent	Absent
37	Total Coliforms	MPN/100	IS:15185:2016	Absent	Absent	Absent	10

Note: \$ - Limits not specified;

NR - No Relaxation

Limits are shown in IS 10500 are Acceptable limits (Requirement) and in parenthesis are Permissible limit in absence of alternate source.


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UTTAR PRADESH-226009**

Report Number : VLL/VLS/22/06624/010
Issued Date : 2022.08.05
P. Order Ref : 5700309099
P.O. Date : 13.05.2022

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SAMPLE PARTICULARS : Drinking Water

Frequency Of Sampling : One Grab sample in a Quarter
Month of Sampling : **July 2022**
Quantity Collected for Analysis : 5 Liter
Type of Container used for sampling : HDPE Plastic Container-3 L
Amberlite Glass Container-2 L
Test Required : As per IS 10500:2012
Sample Collected On : 25.07.2022
Analysis Start Date : 27.07.2022
Analysis Completion Date : 04.08.2022
Sample collected by Vimta Labs Ltd.,

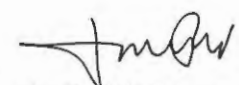
TEST REPORT

Sr.No	Parameter	UoM	Method of Testing	DGCA building DW4	Project Office DW5	Admin Office DW6	Limits as per IS 10500 : 2012
1	pH	-	IS 3025 (Part-11)	6.95	7.30	7.04	6.5 – 8.5 (NR)
2	Colour	Hazen	IS:3025 (Part 4):1983	Colourless	Colourless	Colourless	5(15)
3	Taste	-	IS 3025 (Part 7 & 8):	Agreeable	Agreeable	Agreeable	Agreeable
4	Odour	-	IS 3025 (Part 5)	Agreeable	Agreeable	Agreeable	Agreeable
5	Conductivity	µS/cm	APHA 23 rd (2510B)	181	266	226	\$
6	Turbidity	NTU	IS 3025 (Part 10)	<1	<1	<1	1(5)
7	TDS	mg/l	IS 3025 (Part 16)	114	172	140	500(2000)
8	Total Hardness (as CaCO ₃)	mg/l	IS 3025 (Part-21)	67.4	100.3	85.2	200(600)
9	Total Alkalinity as CaCO ₃	mg/l	IS 3025 (Part-23)	55.2	97.2	63.4	200(600)
10	Calcium (as Ca)	mg/l	IS 3025 (part-40)	17.4	21.7	20.4	75(200)
11	Magnesium (as Mg)	mg/l	IS 3025 (Part-46)	5.8	11.2	8.3	30(100)
12	Free residual Chlorine	mg/l	IS:3025 (Part 26, 1.2)	<0.1	<0.1	<0.1	0.2(1)
13	Boron (as B)	mg/l	IS:13428:2005	<0.01	<0.01	<0.01	0.5(1)
14	Chlorides (as Cl)	mg/l	IS 3025 (Part 32)	16.4	14.2	24.1	250(1000)
15	Sulphates (as SO ₄)	mg/l	IS 3025 (part-24)	8.5	107	12.8	200(400)
16	Fluorides (as F)	mg/l	APHA 23 rd (4500)	0.2	0.1	0.1	1.0(1.5)

Note: \$ - Limits not specified;

NR - No Relaxation

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SAMPLE PARTICULARS : Drinking Water

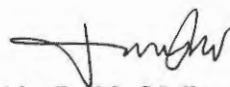
TEST REPORT

Sr.No	Parameter	UoM	Method of Testing	DGCA building DW4	Project Office DW5	Admin Office DW6	Limits as per IS 10500 : 2012
17	Nitrates (as NO ₃)	mg/l	APHA 23 rd (4500)	3.7	4.8	2.3	45(NR)
18	Sodium as Na	mg/l	APHA 23 rd (3500 Na)	9.9	13.6	12.1	\$
19	Potassium as K	mg/l	APHA 23 rd (3500 K)	1.6	2.3	1.2	\$
20	Phenolic Compounds	mg/l	IS:3025 (Part 43)	<0.001	<0.001	<0.001	0.001(0.002)
21	Cyanides(as CN)	mg/l	IS:3025 (Part 27,3)	<0.02	<0.02	<0.02	0.05 (NR)
22	Anionic Detergents	mg/l	IS:13428:2005	<0.02	<0.02	<0.02	0.2 (1.0)
23	Mineral Oil	mg/l	IS 3025 (Part 39):	<0.01	<0.01	<0.01	0.5 (NR)
24	Cadmium (as Cd)	mg/l	APHA 23 rd 3125	<0.003	<0.003	<0.003	0.003 (NR)
25	Total Arsenic (as As)	mg/l	APHA 23 rd 3125	<0.01	<0.01	<0.01	0.01 (0.05)
26	Copper (as Cu)	mg/l	IS:3025 Part 2:2004	<0.01	<0.01	<0.01	0.05 (1.5)
27	Lead (as Pb)	mg/l	APHA 23 rd 3125	<0.01	<0.01	<0.01	0.01 (NR)
28	Manganese (as Mn)	mg/l	APHA 23 rd 3125	<0.01	<0.01	<0.01	0.1 (0.3)
29	Iron (as Fe)	mg/l	APHA 23 rd 3125	0.01	0.02	0.01	0.3(NR)
30	Total Chromium (as Cr)	mg/l	APHA 23 rd 3125	<0.01	<0.01	<0.01	0.05(NR)
31	Selenium (as Se)	mg/l	IS:15303:2003	<0.01	<0.01	<0.01	0.01(NR)
32	Zinc (as Zn)	mg/l	IS:3025 Part 2:2004	0.02	0.05	0.03	5(15)
33	Aluminum (as Al)	mg/l	IS:3025 (Part 55)	<0.01	<0.01	<0.01	0.03(0.2)
34	Mercury (as Hg)	mg/l	APHA 23 rd 3125	<0.001	<0.001	<0.001	0.001(NR)
35	Pesticides	µg/l	APHA 23 rd	Absent	Absent	Absent	Absent
36	E. Coil	-	IS 15185:: 2016	Absent	Absent	Absent	Absent
37	Total Coliforms	MPN/100	IS:15185:2016	Absent	Absent	Absent	10

Note: \$ - Limits not specified;

NR - No Relaxation

Limits are shown in IS 10500 are Acceptable limits (Requirement) and in parenthesis are Permissible limit in absence of alternate source.


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Dy. Manager-Environment

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UTTAR PRADESH - 226009

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P. Order Ref : 5700309099
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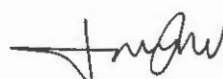
Page 1 of 2

SAMPLE PARTICULARS : Cooling Tower Water

Frequency Of Sampling : One Grab sample in a Month
Month of Sampling : July 2022
Quantity Collected for Analysis : 5 Liter
Type of Container used for sampling : HDPE Plastic Container-3 L
Amberlite Glass Container-2 L
Test Required : As per IS 10500:2012
Sample Collected On : 25.07.2022
Analysis Start Date : 27.07.2022
Analysis Completion Date : 04.08.2022
Sample collected by Vimta Labs Ltd.,

TEST REPORT

Sr.No.	Parameter	UoM	Method of Testing	Cooling Tower Water Near CCR	Cooling Tower Water Near Scada
1	pH	--	IS 3025 (Part-11)	7.83	7.37
2	Salinity	ppt	APHA 23 rd (2520B)	0.179	0.150
3	Conductivity	µs/cm	APHA 23 rd (2510B)	996	827
4	Total Dissolved Solids	mg/l	IS 3025 (Part 16)	657	528
5	Chlorides as Cl	mg/l	IS 3025 (Part 32)	99.3	83.3
6	Mercury as Hg	mg/l	APHA 23 rd 3125	<0.001	<0.001
7	Arsenic as As	mg/l	APHA 23 rd 3125	<0.01	<0.01
8	Lead as Pb	mg/l	APHA 23 rd 3125	<0.01	<0.01
9	Chromium as Cr	mg/l	APHA 23 rd 3125	<0.01	<0.01
10	Cadmium as Cd	mg/l	APHA 23 rd 3125	<0.003	<0.003
11	Total Alkalinity as CaCO ₃	mg/l	IS 3025 (Part-23)	278.3	231.6
12	Calcium as Ca	mg/l	IS 3025 (part	73.6	62.8
13	Magnesium as Mg	mg/l	IS 3025 (Part	37.0	33.7
14	Sodium as Na	mg/l	APHA 23 rd (3500 Na)	66.2	47.3
15	Potassium as K	mg/l	APHA 23 rd (3500 K)	14.3	11.7
16	Sulphates as SO ₄	mg/l	IS 3025 (part-24)	68.2	55.4
17	Nitrates as NO ₃	mg/l	APHA 23 rd (4500)	8.3	6.1


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Dy. Manager-Environment

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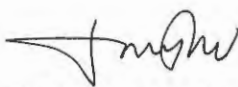
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SAMPLE PARTICULARS : Cooling Tower Water

TEST REPORT

Sr.No.	Parameter	UoM	Method of Testing	Cooling Tower Water Near CCR	Cooling Tower Water Near Scada
18	Phosphates as PO ₄	mg/l	APHA 23 rd (4500 -P D)	0.02	0.01
19	Barium as Ba	mg/l	APHA 23 rd 3125	0.004	0.003
20	Fluoride as F	mg/l	APHA 23 rd (4500)	0.5	0.3
21	Cobalt as Co	mg/l	APHA 23 rd 3125	<0.01	<0.01
22	Copper as Cu	mg/l	APHA 23 rd 3125	<0.01	<0.01
23	Manganese as Mn	mg/l	APHA 23 rd 3125	<0.01	<0.01
24	Nickel as Ni	mg/l	APHA 23 rd 3125	<0.01	<0.01
25	Total Hardness as CaCO ₃	mg/l	IS 3025 (Part-21)	336.0	295.7
26	Iron as Fe	mg/l	APHA 23 rd 3125	0.03	0.04
27	Silica as SiO ₂	mg/l	APHA 23 rd (4500 - SiO ₂)	3.3	2.8
28	Total Coliforms	MPN/100ml	APHA9221	<1.8	<1.8
29	Legionella	Per 1000ml	APHA 9260J	Absent	Absent


Dr. Subba Reddy Mallampati
Dy. Manager-Environment

August-2022

Environmental Monitoring Test Reports



Project Proponent:

M/s. Lucknow International Airport Limited,
(CHAUDHARY CHARAN SINGH INTERNATIONAL AIRPORT),
Amausi, Lucknow, Uttar Pradesh 226009

Consultant:



VIMTA LABS LIMITED,
142,IDA, PHASE-II,CHERLAPALLY,
HYDERABAD-500051,TELANGANA STATE
www.vimta.com.www.env@vimta.com

ISSUED TO:

M/S.LUCKNOW INTERNATIONAL AIRPORT LIMITED.,
(CHAUDHARY CHARAN SINGH INTERNATIONAL
AIRPORT),
AMAUSI, LUCKNOW,
UTTARPRADESH-226009

Report Number : VLL/VLS/22/08169/001
Issued Date : 2022.09.06
P. Order Ref : 5700309099
P.O. Date : 13.05.2022

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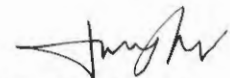
**SAMPLE PARTICULARS : AMBIENT AIR QUALITY MONITORING
TOP OF THE FIRE STATION-AIRSIDE**

Frequency Of Sampling	: Weekly Twice
Time Weighted Average	: 24 Hours
Sampling & Analysis Method	: PM10 - IS:5182 P-23; PM2.5-IS:5182P-24; SO2 - IS:5182 P2; and NO2 - IS:5182 P-6
Month of Monitoring	: August 2022
Test Required	: PM ₁₀ , PM _{2.5} , SO ₂ , NO ₂ and CO
Sample collected by Vimta labs ltd	

TEST REPORT

Location Code:AAQ-1	RESULTS (µg/m ³)				
	Particulates Matter as PM _{2.5}	Particulates Matter as PM ₁₀	Sulphur Dioxide as SO ₂	Nitrogen Dioxide as NO ₂	CO Carbon Monoxide
01.08.2022	30.2	57.3	16.1	20.5	0.460
04.08.2022	31.5	63.0	17.5	19.2	0.458
10.08.2022	28.6	58.6	18.8	23.4	0.431
13.08.2022	32.3	61.7	15.3	21.7	0.428
17.08.2022	27.3	62.7	16.9	19.4	0.490
20.08.2022	29.3	60.2	19.6	24.9	0.471
23.08.2022	31.6	58.3	16.6	23.1	0.436
25.08.2022	30.8	60.4	17.7	22.2	0.456
29.08.2022	33.3	58.2	18.1	20.3	0.481
Minimum	27.3	57.3	15.3	19.2	0.428
Maximum	33.3	63.0	19.6	24.9	0.490
Mean	30.5	60.0	17.4	21.6	0.457
98%ile	33.1	63.0	19.5	24.7	0.489
NAAQ Standard	60	100	80	80	2

• All the above values are expressed in µg/m³ except CO is mg/m³



Dr. Subba Reddy Mallampati
Dy. Manager-Environment

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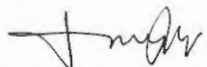
**SAMPLE PARTICULARS : AMBIENT AIR QUALITY MONITORING
TOP OF SCADA BUILDING**

Frequency Of Sampling	: Weekly Twice
Time Weighted Average	: 24 Hours
Sampling & Analysis Method	: PM10 - IS:5182 P-23; PM2.5 - IS:5182P-24; SO2 - IS:5182 P2; and NO2 - IS:5182 P-6
Month of Monitoring	: August 2022
Test Required	: PM ₁₀ , PM _{2.5} , SO ₂ , NO ₂ and CO
Sample collected by Vimta labs ltd	

TEST REPORT

Location Code:AAQ-2	RESULTS (µg/m ³)				
	Particulates Matter as PM _{2.5}	Particulates Matter as PM ₁₀	Sulphur Dioxide as SO ₂	Nitrogen Dioxide as NO ₂	CO Carbon Monoxide
01.08.2022	26.3	55.3	17.0	21.4	0.422
04.08.2022	24.0	56.3	15.5	19.4	0.437
10.08.2022	30.1	57.2	16.3	20.5	0.416
13.08.2022	27.4	60.2	17.2	19.4	0.457
17.08.2022	29.1	58.9	15.2	21.2	0.408
20.08.2022	32.1	57.0	17.1	19.6	0.444
23.08.2022	29.0	61.1	16.5	17.9	0.432
25.08.2022	27.1	55.6	18.1	21.1	0.423
29.08.2022	24.4	58.6	16.4	19.6	0.441
Minimum	24.0	55.3	15.2	17.9	0.408
Maximum	32.1	61.1	18.1	21.4	0.457
Mean	27.7	57.8	16.6	20.0	0.431
98%ile	31.8	61.0	18.0	21.4	0.455
NAAQ Standard	60	100	80	80	2

- All the above values are expressed in µg/m³ except CO is mg/m³


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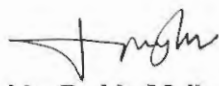
**SAMPLE PARTICULARS : AMBIENT AIR QUALITY MONITORING
NEAR TERMINAL-1 BUILDING**

Frequency Of Sampling	: Weekly Twice
Time Weighted Average	: 24 Hours
Sampling & Analysis Method	: PM10 - IS:5182 P-23; PM2.5 - IS:5182P-24; SO2 - IS:5182 P2; and NO2 - IS:5182 P-6
Month of Monitoring	: August 2022
Test Required	: PM ₁₀ , PM _{2.5} , SO ₂ , NO ₂ and CO,
Sample collected by Vimta labs ltd	

TEST REPORT

Location Code:AAQ-3	RESULTS($\mu\text{g}/\text{m}^3$)				
	Particulates Matter as PM _{2.5}	Particulates Matter as PM ₁₀	Sulphur Dioxide as SO ₂	Nitrogen Dioxide as NO ₂	CO Carbon Monoxide
01.08.2022	25.8	57.2	16.4	18.5	0.456
04.08.2022	27.1	55.1	13.5	19.1	0.437
10.08.2022	25.9	57.0	15.8	17.3	0.423
13.08.2022	28.6	54.2	16.7	19.5	0.416
17.08.2022	26.0	57.1	14.8	16.4	0.432
20.08.2022	27.8	56.0	16.7	19.2	0.447
23.08.2022	25.3	55.2	13.7	17.2	0.431
25.08.2022	24.8	57.2	15.4	18.5	0.442
29.08.2022	28.1	59.3	14.4	17.1	0.455
Minimum	24.8	54.2	13.5	16.4	0.416
Maximum	28.6	59.3	16.7	19.5	0.456
Mean	26.6	56.5	15.3	18.1	0.438
98%ile	28.5	59.0	16.7	19.5	0.456
NAAQ Standard	60	100	80	80	2

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Dr. Subba Reddy Mallampati
Dy. Manager-Environment

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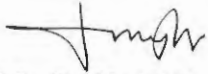
**SAMPLE PARTICULARS : AMBIENT AIR QUALITY MONITORING
PROJECT OFFICE**

Frequency Of Sampling	: Weekly Twice
Time Weighted Average	: 24 Hours
Sampling & Analysis Method	: PM10-IS:5182 P-23; and PM2.5-IS:5182P-24
Month of Monitoring	: August 2022
Test Required	: PM ₁₀ , PM _{2.5} , SO ₂ , NO ₂ and CO
Sample collected by	: Vimta labs ltd

TEST REPORT

Location Code:AAQ-4	RESULTS (µg/m ³)				
	Particulates Matter as PM _{2.5}	Particulates Matter as PM ₁₀	Sulphur Dioxide as SO ₂	Nitrogen Dioxide as NO ₂	CO Carbon Monoxide
01.08.2022	26.4	56.8	17.5	16.2	0.430
04.08.2022	29.1	63.2	13.7	17.3	0.450
10.08.2022	27.5	59.3	14.7	18.0	0.428
13.08.2022	25.3	60.7	15.9	19.2	0.403
17.08.2022	29.2	55.4	13.4	18.4	0.418
20.08.2022	24.5	60.5	15.4	19.2	0.463
23.08.2022	28.1	56.1	13.7	15.6	0.434
25.08.2022	26.8	61.3	12.7	17.1	0.397
29.08.2022	26.2	63.8	14.7	18.3	0.427
Minimum	24.5	55.4	12.7	15.6	0.397
Maximum	29.2	63.8	17.5	19.2	0.463
Mean	27.0	59.7	14.6	17.7	0.428
98%ile	29.2	63.7	17.2	19.2	0.461
NAAQ Standard	60	100	80	80	2

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**SAMPLE PARTICULARS : AMBIENT AIR QUALITY MONITORING
RAHIMABAD**

Frequency Of Sampling : Weekly Twice
Time Weighted Average : 24 Hours
Sampling & Analysis Method : PM10-IS:5182 P-23; and PM2.5-IS:5182P-24
Month of Monitoring : August 2022
Test Required : PM₁₀, PM_{2.5}, SO₂, NO₂ and CO
Sample collected by Vimta labs ltd

TEST REPORT

Location Code:AAQ-5	RESULTS (µg/m ³)				
Date of Sampling	Particulates Matter as PM _{2.5}	Particulates Matter as PM ₁₀	Sulphur Dioxide as SO ₂	Nitrogen Dioxide as NO ₂	CO Carbon Monoxide
01.08.2022	32.1	60.4	18.0	22.0	0.408
04.08.2022	29.5	55.5	16.8	18.3	0.417
10.08.2022	30.5	63.5	14.4	21.6	0.342
13.08.2022	33.1	64.0	16.3	15.8	0.361
17.08.2022	30.7	59.2	18.1	23.3	0.327
20.08.2022	35.4	61.4	15.5	19.2	0.417
23.08.2022	30.2	56.6	14.1	22.5	0.408
25.08.2022	32.4	59.3	16.6	21.5	0.377
29.08.2022	34.1	62.3	13.5	18.3	0.418
Minimum	29.5	55.5	13.5	15.8	0.327
Maximum	35.4	64.0	18.1	23.3	0.418
Mean	32.0	60.2	15.9	20.3	0.386
98%ile	35.2	63.9	18.1	23.2	0.418
NAAQ Standard	60	100	80	80	2

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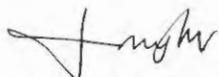
**SAMPLE PARTICULARS : AMBIENT AIR QUALITY MONITORING
NADARGANJ**

Frequency Of Sampling : Weekly Twice
Time Weighted Average : 24 Hours
Sampling & Analysis Method : PM10-IS:5182 P-23; and PM2.5-IS:5182P-24
Month of Monitoring : August 2022
Test Required : PM₁₀, PM_{2.5}, SO₂, NO₂ and CO
Sample collected by Vimta labs ltd

TEST REPORT

Location Code:AAQ-6	RESULTS (µg/m ³)				
	Particulates Matter as PM _{2.5}	Particulates Matter as PM ₁₀	Sulphur Dioxide as SO ₂	Nitrogen Dioxide as NO ₂	CO Carbon Monoxide
01.08.2022	29.1	63.8	15.8	19.2	0.414
04.08.2022	26.4	60.1	12.6	15.3	0.420
10.08.2022	30.2	58.3	14.8	20.4	0.433
13.08.2022	27.4	62.7	15.3	17.2	0.417
17.08.2022	30.8	65.0	12.8	16.1	0.372
20.08.2022	26.7	62.1	16.3	17.1	0.437
23.08.2022	29.5	65.7	12.6	15.9	0.345
25.08.2022	25.6	57.3	16.5	19.2	0.416
29.08.2022	30.2	63.3	13.8	16.2	0.367
Minimum	25.6	57.3	12.6	15.3	0.345
Maximum	30.8	65.7	16.5	20.4	0.437
Mean	28.4	62.0	14.5	17.4	0.402
98%ile	30.7	65.6	16.5	20.2	0.436
NAAQ Standard	60	100	80	80	2

- All the above values are expressed in µg/m³ except CO is mg/m³


Dr. Subba Reddy Mallampati
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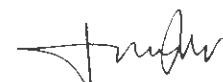
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SAMPLE PARTICULARS : AMBIENT NOISE LEVEL MONITORING

Frequency Of Sampling : Monthly Once in Each Location
Time Weighted Average : 24 Hours
Method of Analysis : IS:9989
Month of Monitoring : August 2022
Test Required : L-Day and L-Night
Sample collected by Vimta labs ltd

TEST REPORT

Sr.No	Name of the Location	Date of Monitoring	L-day	L-night
			dB(A)	
1	Top of the Fire Station (Air Side)	10.08.2022	67.0	61.8
2	Top of SCADA Building	04.08.2022	64.1	58.9
3	Near Terminal-I Building	01.08.2022	62.2	57.3
4	Project office	03.08.2022	63.7	56.7
5	Rahimabad	07.08.2022	51.6	42.5
6	Nadarganj	20.08.2022	53.1	43.0
Noise Standards for Airport Zone			70.0	65.0



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SAMPLE PARTICULARS : STP WATER

Frequency Of Sampling : One Grab sample in a Month
 Month of Sampling : **August 2022**
 Quantity Collected for Analysis : 5 Liter
 Type of Container used for sampling : HDPE Plastic Container-3 L
 Amberlite Glass Container-2 L
 Test Required : pH; Total Suspended Solids; Total Dissolved Solids; Total Nitrogen; Chemical Oxygen Demand; Biological Oxygen Demand; Oil and Grease; and Ammonical Nitrogen, Residual Chlorine and Fecal Coliform.
 Sample Collected On : 12.08.2022
 Analysis Start Date : 13.08.2022
 Analysis Completion Date : 22.08.2022
 Sample collected by Vimta Labs Ltd.,

TEST REPORT

Sr.No	Parameters	Method Adopted	UoM	STP Inlet Water	STP Outlet Water	Limits as per G.S.R. 1265(E)
1	pH	IS:3025 P-11	--	7.32	7.71	6.5 - 9.0
2	Total Suspended Solids	IS:3025 P-17	mg/L	85	17	< 50
3	Total Dissolved Solids	IS:3025 P-16	mg/L	327	263	--
4	Total Nitrogen	APHA 4500-B	mg/L	11.3	3.3	--
5	Chemical Oxygen Demand	APHA 5220B	mg/L	166	42	--
6	Biological Oxygen Demand at 27°C, 3 days	IS:3025 P-44	mg/L	55	12	< 20
7	Oil and Grease	APHA 5520-C	mg/L	<0.1	<0.1	--
8	Ammonical Nitrogen	APHA 4500-F	mg/L	4.8	<0.1	--
9	Residual Chlorine	IS:3025 P-26	mg/L	<0.1	<0.1	-
10	Chlorides (as Cl)	IS 3025 (Part 32)	mg/L	96	67	-
11	Fecal Coliform	EPA Method 1681: 2006	MPN/100ml	163	<1.8	<1000



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SAMPLE PARTICULARS : Drinking Water

Frequency Of Sampling : One Grab sample in a Quarter
Month of Sampling : August 2022
Quantity Collected for Analysis : 5 Liter
Type of Container used for sampling : HDPE Plastic Container-3 L
Amberlite Glass Container-2 L
Test Required : As per IS 10500:2012
Sample Collected On : 23.08.2022
Analysis Start Date : 25.08.2022
Analysis Completion Date : 01.09.2022
Sample collected by Vimta Labs Ltd.,

TEST REPORT

Sr.No	Parameter	UoM	Method of Testing	Terminal-1 DW1	Terminal-2 DW2	ATC building DW3	Limits as per IS 10500 : 2012
1	pH	-	IS 3025 (Part-11)	7.61	7.54	7.27	6.5 – 8.5 (NR)
2	Colour	Hazen	IS:3025 (Part 4):1983	Colourless	Colourless	Colourless	5(15)
3	Taste	-	IS 3025 (Part 7 & 8):	Agreeable	Agreeable	Agreeable	Agreeable
4	Odour	-	IS 3025 (Part 5)	Agreeable	Agreeable	Agreeable	Agreeable
5	Conductivity	µS/cm	APHA 23 rd (2510B)	166	218	203	\$
6	Turbidity	NTU	IS 3025 (Part 10)	<1	<1	<1	1(5)
7	TDS	mg/l	IS 3025 (Part 16)	102	139	127	500(2000)
8	Total Hardness (as CaCO ₃)	mg/l	IS 3025 (Part-21)	58.5	75.0	69.1	200(600)
9	Total Alkalinity as CaCO ₃	mg/l	IS 3025 (Part-23)	51.6	64.5	67.2	200(600)
10	Calcium (as Ca)	mg/l	IS 3025 (part-40)	13.2	18.3	17.6	75(200)
11	Magnesium (as Mg)	mg/l	IS 3025 (Part-46)	6.2	7.1	6.1	30(100)
12	Free residual Chlorine	mg/l	IS:3025 (Part 26, 1.2)	<0.1	<0.1	<0.1	0.2(1)
13	Boron (as B)	mg/l	IS:13428:2005	<0.01	<0.01	<0.01	0.5(1)
14	Chlorides (as Cl)	mg/l	IS 3025 (Part 32)	15.2	21.2	14.2	250(1000)
15	Sulphates (as SO ₄)	mg/l	IS 3025 (part-24)	6.9	9.6	10.5	200(400)
16	Fluorides (as F)	mg/l	APHA 23 rd (4500)	<0.1	0.1	0.2	1.0(1.5)

Note: \$ - Limits not specified;

NR - No Relaxation

Limits are shown in IS 10500 are Acceptable limits (Requirement) and in parenthesis are Permissible limit in absence of alternate Source

Dr. Subba Reddy Mallampati
Dy. Manager-Environment

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SAMPLE PARTICULARS : Drinking Water

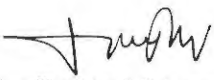
TEST REPORT

Sr.No	Parameter	UoM	Method of Testing	Terminal-1 DW1	Terminal-2 DW2	ATC building DW3	Limits as per IS 10500 : 2012
17	Nitrates (as NO ₃)	mg/l	APHA 23 rd (4500)	3.6	5.1	3.2	45(NR)
18	Sodium as Na	mg/l	APHA 23 rd (3500 Na)	10.5	14.5	13.8	\$
19	Potassium as K	mg/l	APHA 23 rd (3500 K)	1.5	2.2	1.8	\$
20	Phenolic Compounds	mg/l	IS:3025 (Part 43)	<0.001	<0.001	<0.001	0.001(0.002)
21	Cyanides(as CN)	mg/l	IS:3025 (Part 27,3	<0.02	<0.02	<0.02	0.05 (NR)
22	Anionic Detergents	mg/l	IS:13428:2005	<0.02	<0.02	<0.02	0.2 (1.0)
23	Mineral Oil	mg/l	IS 3025 (Part 39):	<0.01	<0.01	<0.01	0.5 (NR)
24	Cadmium (as Cd)	mg/l	APHA 23 rd 3125	<0.003	<0.003	<0.003	0.003 (NR)
25	Total Arsenic (as As)	mg/l	APHA 23 rd 3125	<0.01	<0.01	<0.01	0.01 (0.05)
26	Copper (as Cu)	mg/l	IS:3025 Part 2:2004	<0.01	<0.01	<0.01	0.05 (1.5)
27	Lead (as Pb)	mg/l	APHA 23 rd 3125	<0.01	<0.01	<0.01	0.01 (NR)
28	Manganese (as Mn)	mg/l	APHA 23 rd 3125	<0.01	<0.01	<0.01	0.1 (0.3)
29	Iron (as Fe)	mg/l	APHA 23 rd 3125	<0.01	0.01	<0.01	0.3(NR)
30	Total Chromium (as Cr)	mg/l	APHA 23 rd 3125	<0.01	<0.01	<0.01	0.05(NR)
31	Selenium (as Se)	mg/l	IS:15303:2003	<0.01	<0.01	<0.01	0.01(NR)
32	Zinc (as Zn)	mg/l	IS:3025 Part 2:2004	<0.01	0.01	0.02	5(15)
33	Aluminum (as Al)	mg/l	IS:3025 (Part 55)	<0.001	<0.001	<0.001	0.03(0.2)
34	Mercury (as Hg)	mg/l	APHA 23 rd 3125	<0.001	<0.001	<0.001	0.001(NR)
35	Pesticides	µg/l	APHA 23 rd	Absent	Absent	Absent	Absent
36	E. Coil	-	IS 15185:: 2016	Absent	Absent	Absent	Absent
37	Total Coliforms	MPN/100	IS:15185:2016	Absent	Absent	Absent	10

Note: \$ - Limits not specified;

NR - No Relaxation

Limits are shown in IS 10500 are Acceptable limits (Requirement) and in parenthesis are Permissible limit in absence of alternate source.


Dr. Subba Reddy Mallampati
Dy. Manager-Environment

ISSUED TO:

**M/S. LUCKNOW INTERNATIONAL AIRPORT LIMITED.,
(CHAUDHARY CHARAN SINGH INTERNATIONAL
AIRPORT), AMAUSI, LUCKNOW,
UTTAR PRADESH-226009**

Report Number : VLL/VLS/22/08169/010
Issued Date : 2022.09.06
P. Order Ref : 5700309099
P.O. Date : 13.05.2022

Page 1 of 2

SAMPLE PARTICULARS : Drinking Water
Frequency Of Sampling : One Grab sample in a Quarter
Month of Sampling : **August 2022**
Quantity Collected for Analysis : 5 Liter
Type of Container used for sampling : HDPE Plastic Container-3 L
Amberlite Glass Container-2 L
Test Required : As per IS 10500:2012
Sample Collected On : 23.08.2022
Analysis Start Date : 25.08.2022
Analysis Completion Date : 01.09.2022
Sample collected by Vimta Labs Ltd.,

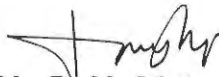
TEST REPORT

Sr.No	Parameter	UoM	Method of Testing	DGCA building DW4	Project Office DW5	Admin Office DW6	Limits as per IS 10500 : 2012
1	pH	-	IS 3025 (Part-11)	7.11	7.60	7.44	6.5 – 8.5 (NR)
2	Colour	Hazen	IS:3025 (Part 4):1983	Colourless	Colourless	Colourless	5(15)
3	Taste	-	IS 3025 (Part 7 & 8):	Agreeable	Agreeable	Agreeable	Agreeable
4	Odour	-	IS 3025 (Part 5)	Agreeable	Agreeable	Agreeable	Agreeable
5	Conductivity	µS/cm	APHA 23 rd (2510B)	138	228	194	\$
6	Turbidity	NTU	IS 3025 (Part 10)	<1	<1	<1	1(5)
7	TDS	mg/l	IS 3025 (Part 16)	85	148	124	500(2000)
8	Total Hardness (as CaCO ₃)	mg/l	IS 3025 (Part-21)	49.8	86.4	71.0	200(600)
9	Total Alkalinity as CaCO ₃	mg/l	IS 3025 (Part-23)	44.1	84.3	54.8	200(600)
10	Calcium (as Ca)	mg/l	IS 3025 (part-40)	13.2	18.3	17.6	75(200)
11	Magnesium (as Mg)	mg/l	IS 3025 (Part-46)	4.2	9.7	7.3	30(100)
12	Free residual Chlorine	mg/l	IS:3025 (Part 26, 1.2)	<0.1	<0.1	<0.1	0.2(1)
13	Boron (as B)	mg/l	IS:13428:2005	<0.01	<0.01	<0.01	0.5(1)
14	Chlorides (as Cl)	mg/l	IS 3025 (Part 32)	11.5	12.4	20.7	250(1000)
15	Sulphates (as SO ₄)	mg/l	IS 3025 (part-24)	6.3	8.6	10.5	200(400)
16	Fluorides (as F)	mg/l	APHA 23 rd (4500)	0.1	<0.1	0.1	1.0(1.5)

Note: \$ - Limits not specified;

NR - No Relaxation

Limits are shown in IS 10500 are Acceptable limits (Requirement) and in parenthesis are Permissible limit in absence of alternate source.


Dr. Subba Reddy Mallampati
Dy. Manager-Environment

ISSUED TO:

**M/S. LUCKNOW INTERNATIONAL AIRPORT LIMITED.,
(CHAUDHARY CHARAN SINGH INTERNATIONAL
AIRPORT), AMAUSI, LUCKNOW,
UTTAR PRADESH-226009**

Report Number : VLL/VLS/22/08169/010
Issued Date : 2022.09.06
P. Order Ref : 5700309099
P.O. Date : 13.05.2022

Page 2 of 2

SAMPLE PARTICULARS : Drinking Water

TEST REPORT

Sr.No	Parameter	UoM	Method of Testing	DGCA building DW4	Project Office DW5	Admin Office DW6	Limits as per IS 10500 : 2012
17	Nitrates (as NO ₃)	mg/l	APHA 23 rd (4500)	2.1	3.6	1.8	45(NR)
18	Sodium as Na	mg/l	APHA 23 rd (3500 Na)	8.2	11.6	11.3	\$
19	Potassium as K	mg/l	APHA 23 rd (3500 K)	1.2	1.9	1.0	\$
20	Phenolic Compounds	mg/l	IS:3025 (Part 43)	<0.001	<0.001	<0.001	0.001(0.002)
21	Cyanides(as CN)	mg/l	IS:3025 (Part 27,3	<0.02	<0.02	<0.02	0.05 (NR)
22	Anionic Detergents	mg/l	IS:13428:2005	<0.02	<0.02	<0.02	0.2 (1.0)
23	Mineral Oil	mg/l	IS 3025 (Part 39):	<0.01	<0.01	<0.01	0.5 (NR)
24	Cadmium (as Cd)	mg/l	APHA 23 rd 3125	<0.003	<0.003	<0.003	0.003 (NR)
25	Total Arsenic (as As)	mg/l	APHA 23 rd 3125	<0.01	<0.01	<0.01	0.01 (0.05)
26	Copper (as Cu)	mg/l	IS:3025 Part 2:2004	<0.01	<0.01	<0.01	0.05 (1.5)
27	Lead (as Pb)	mg/l	APHA 23 rd 3125	<0.01	<0.01	<0.01	0.01 (NR)
28	Manganese (as Mn)	mg/l	APHA 23 rd 3125	<0.01	<0.01	<0.01	0.1 (0.3)
29	Iron (as Fe)	mg/l	APHA 23 rd 3125	<0.01	0.01	0.01	0.3(NR)
30	Total Chromium (as Cr)	mg/l	APHA 23 rd 3125	<0.01	<0.01	<0.01	0.05(NR)
31	Selenium (as Se)	mg/l	IS:15303:2003	<0.01	<0.01	<0.01	0.01(NR)
32	Zinc (as Zn)	mg/l	IS:3025 Part 2:2004	0.01	0.03	0.02	5(15)
33	Aluminum (as Al)	mg/l	IS:3025 (Part 55)	<0.01	<0.01	<0.01	0.03(0.2)
34	Mercury (as Hg)	mg/l	APHA 23 rd 3125	<0.001	<0.001	<0.001	0.001(NR)
35	Pesticides	µg/l	APHA 23 rd	Absent	Absent	Absent	Absent
36	E. Coil	-	IS 15185:: 2016	Absent	Absent	Absent	Absent
37	Total Coliforms	MPN/100	IS:15185:2016	Absent	Absent	Absent	10

Note: \$ - Limits not specified;

NR - No Relaxation

Limits are shown in IS 10500 are Acceptable limits (Requirement) and in parenthesis are Permissible limit in absence of alternate source.



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ISSUED TO:

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 (CHAUDHARY CHARAN SINGH INTERNATIONAL AIRPORT),
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 UTTAR PRADESH - 226009

Report Number : VLL/VLS/22/08169/011
 Issued Date : 2022.09.06
 P. Order Ref : 5700309099
 P.O. Date : 13.05.2022


Page 1 of 2

SAMPLE PARTICULARS : Cooling Tower Water

Frequency Of Sampling : One Grab sample in a Month
 Month of Sampling : August 2022
 Quantity Collected for Analysis : 5 Liter
 Type of Container used for sampling : HDPE Plastic Container-3 L
 Amberlite Glass Container-2 L
 Test Required : As per IS 10500:2012
 Sample Collected On : 23.08.2022
 Analysis Start Date : 25.08.2022
 Analysis Completion Date : 01.09.2022
 Sample collected by Vimta Labs Ltd.,

TEST REPORT

Sr.No.	Parameter	UoM	Method of Testing	Cooling Tower Water Near CCR	Cooling Tower Water Near Scada
1	pH	--	IS 3025 (Part-11)	7.89	8.31
2	Salinity	ppt	APHA 23 rd (2520B)	0.201	0.130
3	Conductivity	µs/cm	APHA 23 rd (2510B)	1056	726
4	Total Dissolved Solids	mg/l	IS 3025 (Part 16)	665	450
5	Chlorides as Cl	mg/l	IS 3025 (Part 32)	112.0	72.4
6	Mercury as Hg	mg/l	APHA 23 rd 3125	<0.001	<0.001
7	Arsenic as As	mg/l	APHA 23 rd 3125	<0.01	<0.01
8	Lead as Pb	mg/l	APHA 23 rd 3125	<0.01	<0.01
9	Chromium as Cr	mg/l	APHA 23 rd 3125	<0.01	<0.01
10	Cadmium as Cd	mg/l	APHA 23 rd 3125	<0.003	<0.003
11	Total Alkalinity as CaCO ₃	mg/l	IS 3025 (Part-23)	284.3	202.4
12	Calcium as Ca	mg/l	IS 3025 (part	81.7	56.6
13	Magnesium as Mg	mg/l	IS 3025 (Part	41.3	29.4
14	Sodium as Na	mg/l	APHA 23 rd (3500 Na)	63.5	41.6
15	Potassium as K	mg/l	APHA 23 rd (3500 K)	12.4	8.4
16	Sulphates as SO ₄	mg/l	IS 3025 (part-24)	72.3	48.7
17	Nitrates as NO ₃	mg/l	APHA 23 rd (4500)	10.1	8.2



Dr. Subba Reddy Mallampati
 Dy. Manager-Environment

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ISSUED TO:

M/S. LUCKNOW INTERNATIONAL AIRPORT LIMITED,
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AMAUSI, LUCKNOW,
UTTAR PRADESH - 226009

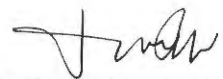
Report Number : VLL/VLS/22/08169/011
Issued Date : 2022.09.06
P. Order Ref : 5700309099
P.O. Date : 13.05.2022

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SAMPLE PARTICULARS : Cooling Tower Water

TEST REPORT

Sr.No.	Parameter	UoM	Method of Testing	Cooling Tower Water Near CCR	Cooling Tower Water Near Scada
18	Phosphates as PO ₄	mg/l	APHA 23 rd (4500 -P D)	0.01	0.04
19	Barium as Ba	mg/l	APHA 23 rd 3125	0.002	0.001
20	Fluoride as F	mg/l	APHA 23 rd (4500)	0.3	0.2
21	Cobalt as Co	mg/l	APHA 23 rd 3125	<0.01	<0.01
22	Copper as Cu	mg/l	APHA 23 rd 3125	<0.01	<0.01
23	Manganese as Mn	mg/l	APHA 23 rd 3125	<0.01	<0.01
24	Nickel as Ni	mg/l	APHA 23 rd 3125	<0.01	<0.01
25	Total Hardness as CaCO ₃	mg/l	IS 3025 (Part-21)	374.2	262.5
26	Iron as Fe	mg/l	APHA 23 rd 3125	0.05	0.02
27	Silica as SiO ₂	mg/l	APHA 23 rd (4500 - SiO ₂)	2.7	1.7
28	Total Coliforms	MPN/100ml	APHA9221	<1.8	<1.8
29	Legionella	Per 1000ml	APHA 9260J	Absent	Absent



Dr. Subba Reddy Mallampati
Dy. Manager-Environment

September-2022

Environmental Monitoring Test Reports



Project Proponent:

M/s. Lucknow International Airport Limited,
(CHAUDHARY CHARAN SINGH INTERNATIONAL AIRPORT),
Amausi, Lucknow, Uttar Pradesh 226009

Consultant:

Vimta 

Driven by Quality. Inspired by Science.

VIMTA LABS LIMITED.,
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ISSUED TO:

M/S.LUCKNOW INTERNATIONAL AIRPORT LIMITED.,
(CHAUDHARY CHARAN SINGH INTERNATIONAL
AIRPORT),
AMAUSI, LUCKNOW,
UTTARPRADESH-226009

Report Number : VLL/VLS/22/10012/001
Issued Date : 2022.10.07
P. Order Ref : 5700309099
P.O. Date : 13.05.2022

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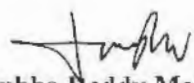
**SAMPLE PARTICULARS : AMBIENT AIR QUALITY MONITORING
TOP OF THE FIRE STATION-AIRSIDE**

Frequency Of Sampling	: Weekly Twice
Time Weighted Average	: 24 Hours
Sampling & Analysis Method	: PM10 - IS:5182 P-23; PM2.5-IS:5182P-24; SO2 - IS:5182 P2; and NO2 - IS:5182 P-6
Month of Monitoring	: September 2022
Test Required	: PM ₁₀ , PM _{2.5} , SO ₂ , NO ₂ and CO
Sample collected by Vimta labs ltd	

TEST REPORT

Location Code:AAQ-1	RESULTS (µg/m ³)				
	Particulates Matter as PM _{2.5}	Particulates Matter as PM ₁₀	Sulphur Dioxide as SO ₂	Nitrogen Dioxide as NO ₂	CO Carbon Monoxide
01.09.2022	32.0	55.2	18.2	22.4	0.478
05.09.2022	29.3	60.9	19.0	21.1	0.481
07.09.2022	30.4	61.4	20.3	25.3	0.449
12.09.2022	26.5	59.6	16.8	19.4	0.433
14.09.2022	34.7	60.6	18.4	21.3	0.508
19.09.2022	31.1	58.1	16.4	20.4	0.489
21.09.2022	33.4	61.0	18.1	25.0	0.454
27.09.2022	32.6	58.3	21.4	24.1	0.474
29.09.2022	29.4	60.5	16.4	22.2	0.499
Minimum	26.5	55.2	16.4	19.4	0.433
Maximum	34.7	61.4	21.4	25.3	0.508
Mean	31.0	59.5	18.3	22.4	0.474
98%ile	34.5	61.3	21.2	25.3	0.507
NAAQ Standard	60	100	80	80	2

- All the above values are expressed in µg/m³ except CO is mg/m³


Dr. Subba Reddy Mallampati
Dy. Manager-Environment

ISSUED TO:

M/S.LUCKNOW INTERNATIONAL AIRPORT LIMITED.,
(CHAUDHARY CHARAN SINGH INTERNATIONAL
AIRPORT),
AMAUSI, LUCKNOW,
UTTARPRADESH-226009

Report Number : VLL/VLS/22/10012/002
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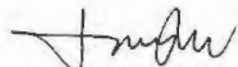
**SAMPLE PARTICULARS : AMBIENT AIR QUALITY MONITORING
TOP OF SCADA BUILDING**

Frequency Of Sampling	: Weekly Twice
Time Weighted Average	: 24 Hours
Sampling & Analysis Method	: PM10 - IS:5182 P-23; PM2.5 - IS:5182P-24; SO2 - IS:5182 P2; and NO2 - IS:5182 P-6
Month of Monitoring	: September 2022
Test Required	: PM ₁₀ , PM _{2.5} , SO ₂ , NO ₂ and CO
Sample collected by Vimta labs ltd	

TEST REPORT

Location Code:AAQ-2	RESULTS (µg/m ³)				
	Particulates Matter as PM _{2.5}	Particulates Matter as PM ₁₀	Sulphur Dioxide as SO ₂	Nitrogen Dioxide as NO ₂	CO Carbon Monoxide
01.09.2022	30.2	53.2	15.6	18.5	0.440
05.09.2022	27.3	58.6	17.0	21.3	0.455
07.09.2022	29.1	55.1	19.2	22.4	0.434
12.09.2022	29.2	59.3	18.7	21.3	0.437
14.09.2022	30.9	54.3	16.7	18.4	0.426
19.09.2022	27.4	54.9	18.6	21.5	0.461
21.09.2022	25.6	59.0	15.7	19.8	0.450
27.09.2022	28.9	53.5	19.6	22.1	0.441
29.09.2022	26.2	56.5	17.9	20.5	0.459
Minimum	25.6	53.2	15.6	18.4	0.426
Maximum	30.9	59.3	19.6	22.4	0.461
Mean	28.3	56.0	17.7	20.6	0.445
98%ile	30.8	59.3	19.5	22.4	0.461
NAAQ Standard	60	100	80	80	2

- All the above values are expressed in µg/m³ except CO is mg/m³


Dr. Subba Reddy Mallampati
Dy. Manager-Environment

ISSUED TO:

M/S.LUCKNOW INTERNATIONAL AIRPORT LIMITED.,
(CHAUDHARY CHARAN SINGH INTERNATIONAL
AIRPORT),
AMAUSI, LUCKNOW,
UTTARPRADESH-226009

Report Number : VLL/VLS/22/10012/003
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Page 1 of 1

**SAMPLE PARTICULARS : AMBIENT AIR QUALITY MONITORING
NEAR TERMINAL-1 BUILDING**

Frequency Of Sampling	: Weekly Twice
Time Weighted Average	: 24 Hours
Sampling & Analysis Method	: PM10 - IS:5182 P-23; PM2.5 - IS:5182P-24; SO2 - IS:5182 P2; and NO2 - IS:5182 P-6
Month of Monitoring	: September 2022
Test Required	: PM ₁₀ , PM _{2.5} , SO ₂ , NO ₂ and CO,
Sample collected by Vimta labs ltd	

TEST REPORT

Location Code:AAQ-3	RESULTS($\mu\text{g}/\text{m}^3$)				
	Particulates Matter as PM _{2.5}	Particulates Matter as PM ₁₀	Sulphur Dioxide as SO ₂	Nitrogen Dioxide as NO ₂	CO Carbon Monoxide
01.09.2022	27.6	55.1	18.3	20.4	0.474
05.09.2022	25.4	53.0	15.0	21.0	0.455
07.09.2022	28.5	54.9	17.3	19.2	0.441
12.09.2022	25.8	58.2	18.2	21.4	0.434
14.09.2022	27.8	55.0	15.8	18.7	0.417
19.09.2022	29.6	57.7	17.5	21.1	0.465
21.09.2022	27.1	53.1	15.2	19.1	0.423
27.09.2022	26.6	55.1	16.9	21.2	0.460
29.09.2022	27.6	57.2	17.3	19.5	0.473
Minimum	25.4	53.0	15.0	18.7	0.417
Maximum	29.6	58.2	18.3	21.4	0.474
Mean	27.3	55.5	16.8	20.2	0.449
98%ile	29.4	58.1	18.3	21.4	0.474
NAAQ Standard	60	100	80	80	2

• All the above values are expressed in $\mu\text{g}/\text{m}^3$ except CO is mg/m^3

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**M/S.LUCKNOW INTERNATIONAL AIRPORT LIMITED.,
(CHAUDHARY CHARAN SINGH INTERNATIONAL
AIRPORT),
AMAUSI, LUCKNOW,
UTTARPRADESH-226009**

Report Number : VLL/VLS/22/10012/004
Issued Date : 2022.10.07
P. Order Ref : 5700309099
P.O. Date : 13.05.2022

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**SAMPLE PARTICULARS : AMBIENT AIR QUALITY MONITORING
PROJECT OFFICE**

Frequency Of Sampling : Weekly Twice
Time Weighted Average : 24 Hours
Sampling & Analysis Method : PM10-IS:5182 P-23; and PM2.5-IS:5182P-24
Month of Monitoring : September 2022
Test Required : PM₁₀, PM_{2.5}, SO₂, NO₂ and CO
Sample collected by Vimta labs ltd

TEST REPORT

Location Code:AAQ-4	RESULTS (µg/m ³)					
	Date of Sampling	Particulates Matter as PM _{2.5}	Particulates Matter as PM ₁₀	Sulphur Dioxide as SO ₂	Nitrogen Dioxide as NO ₂	CO Carbon Monoxide
	01.09.2022	29.3	53.2	15.7	18.1	0.448
	05.09.2022	30.9	60.8	16.4	19.2	0.468
	07.09.2022	29.3	57.2	14.7	19.9	0.407
	12.09.2022	27.1	55.4	18.3	20.7	0.421
	14.09.2022	26.4	61.2	14.9	20.3	0.436
	19.09.2022	26.3	58.4	17.4	19.5	0.436
	21.09.2022	27.5	54.0	15.2	17.5	0.452
	27.09.2022	28.6	59.2	14.2	19.0	0.415
	29.09.2022	29.6	54.7	16.2	20.2	0.445
	Minimum	26.3	53.2	14.2	17.5	0.407
	Maximum	30.9	61.2	18.3	20.7	0.468
	Mean	28.3	57.1	15.9	19.4	0.436
	98%ile	30.7	61.1	18.2	20.6	0.465
	NAAQ Standard	60	100	80	80	2

- All the above values are expressed in µg/m³ except CO is mg/m³

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**SAMPLE PARTICULARS : AMBIENT AIR QUALITY MONITORING
RAHIMABAD**

Frequency Of Sampling : Weekly Twice
Time Weighted Average : 24 Hours
Sampling & Analysis Method : PM10-IS:5182 P-23; and PM2.5-IS:5182P-24
Month of Monitoring : September 2022
Test Required : PM₁₀, PM_{2.5}, SO₂, NO₂ and CO
Sample collected by Vimta labs ltd

TEST REPORT

Location Code:AAQ-5	RESULTS (µg/m ³)				
	Particulates Matter as PM _{2.5}	Particulates Matter as PM ₁₀	Sulphur Dioxide as SO ₂	Nitrogen Dioxide as NO ₂	CO Carbon Monoxide
01.09.2022	34.2	56.3	17.5	19.7	0.426
05.09.2022	26.3	52.7	18.3	20.2	0.435
07.09.2022	28.4	58.5	15.9	23.5	0.360
12.09.2022	31.6	62.3	17.8	17.7	0.379
14.09.2022	32.5	57.1	19.6	25.2	0.345
19.09.2022	29.4	59.3	17.0	21.1	0.435
21.09.2022	32.0	54.5	15.6	18.7	0.426
27.09.2022	35.8	57.2	18.1	20.6	0.395
29.09.2022	30.6	60.2	20.2	20.2	0.436
Minimum	26.3	52.7	15.6	17.7	0.345
Maximum	35.8	62.3	20.2	25.2	0.436
Mean	31.2	57.6	17.8	20.8	0.404
98%ile	35.5	62.0	20.1	24.9	0.436
NAAQ Standard	60	100	80	80	2

- All the above values are expressed in µg/m³ except CO is mg/m³

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**SAMPLE PARTICULARS : AMBIENT AIR QUALITY MONITORING
NADARGANJ**

Frequency Of Sampling	: Weekly Twice
Time Weighted Average	: 24 Hours
Sampling & Analysis Method	: PM10-IS:5182 P-23; and PM2.5-IS:5182P-24
Month of Monitoring	: September 2022
Test Required	: PM ₁₀ , PM _{2.5} , SO ₂ , NO ₂ and CO
Sample collected by Vimta labs ltd	

TEST REPORT

Location Code:AAQ-6	RESULTS (µg/m ³)				
	Particulates Matter as PM _{2.5}	Particulates Matter as PM ₁₀	Sulphur Dioxide as SO ₂	Nitrogen Dioxide as NO ₂	CO Carbon Monoxide
01.09.2022	26.7	56.3	17.3	21.1	0.432
05.09.2022	31.7	58.0	14.1	17.2	0.451
07.09.2022	28.5	62.3	16.3	22.3	0.388
12.09.2022	30.8	60.6	15.4	19.1	0.435
14.09.2022	27.5	62.9	14.3	18.0	0.390
19.09.2022	28.5	60.0	17.8	20.4	0.455
21.09.2022	31.3	63.6	14.1	17.8	0.403
27.09.2022	30.6	58.3	18.0	21.1	0.434
29.09.2022	26.5	60.7	15.3	19.4	0.416
Minimum	26.5	56.3	14.1	17.2	0.388
Maximum	31.7	63.6	18.0	22.3	0.455
Mean	29.1	60.3	15.8	19.6	0.423
98%ile	31.6	63.5	18.0	22.1	0.454
NAAQ Standard	60	100	80	80	2

- All the above values are expressed in µg/m³ except CO is mg/m³



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SAMPLE PARTICULARS : AMBIENT NOISE LEVEL MONITORING

Frequency Of Sampling : Monthly Once in Each Location
 Time Weighted Average : 24 Hours
 Method of Analysis : IS:9989
 Month of Monitoring : September 2022
 Test Required : L-Day and L-Night
 Sample collected by Vimta labs ltd

TEST REPORT

Sr.No	Name of the Location	Date of Monitoring	L-day	L-night
			dB(A)	
1	Top of the Fire Station (Air Side)	03.09.2022	68.2	62.4
2	Top of SCADA Building	05.09.2022	63.8	56.9
3	Near Terminal-1 Building	01.09.2022	64.4	59.1
4	Project office	07.09.2022	61.9	53.8
5	Rahimabad	12.09.2022	53.2	44.1
6	Nadarganj	14.09.2022	52.7	42.5
Noise Standards for Airport Zone			70.0	65.0

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SAMPLE PARTICULARS : STP WATER

Frequency Of Sampling	: One Grab sample in a Month
Month of Sampling	: September 2022
Quantity Collected for Analysis	: 5 Liter
Type of Container used for sampling	: HDPE Plastic Container-3 L Amberlite Glass Container-2 L
Test Required	: pH; Total Suspended Solids; Total Dissolved Solids; Total Nitrogen; Chemical Oxygen Demand; Biological Oxygen Demand; Oil and Grease; and Ammonical Nitroge, Residual Chlorine and Fecal Coliform.
Sample Collected On	: 03.09.2022
Analysis Start Date	: 05.09.2022
Analysis Completion Date	: 12.09.2022
Sample collected by	: Vimta Labs Ltd.,

TEST REPORT

Sr.No	Parameters	Method Adopted	UoM	STP Inlet Water	STP Outlet Water	Limits as per G.S.R. 1265(E)
1	pH	IS:3025 P-11	--	7.44	7.57	6.5 - 9.0
2	Total Suspended Solids	IS:3025 P-17	mg/L	69	15	< 50
3	Total Dissolved Solids	IS:3025 P-16	mg/L	533	467	--
4	Total Nitrogen	APHA 4500-B	mg/L	32.7	4.2	--
5	Chemical Oxygen Demand	APHA 5220B	mg/L	131	35	--
6	Biological Oxygen Demand at 27°C, 3 days	IS:3025 P-44	mg/L	47	10.6	< 20
7	Oil and Grease	APHA 5520-C	mg/L	<0.1	<0.1	--
8	Ammonical Nitrogen	APHA 4500-F	mg/L	22	<0.1	--
9	Residual Chlorine	IS:3025 P-26	mg/L	<0.1	<0.1	-
10	Chlorides (as Cl)	IS 3025 (Part 32	mg/L	104	53	-
11	Fecal Coliform	EPA Method 1681: 2006	MPN/100ml	144	<1.8	<1000

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Sample Name :	Ambient Air Quality Monitoring
Test Required :	Particulate Matter(PM10), Particulate Matter(PM2.5), Sulphur dioxide as SO ₂ , Nitrogen dioxides as NO ₂ , Ozone (O ₃), Carbon monoxide (CO), Ammonia (NH ₃), Lead (Pb), Arsenic (As), Nickel (Ni), Benzene (C ₆ H ₆) and Benzo (A) Pyrene (BaP).
Sampling Date :	2022-09-17
Analysis Starting Date :	2022-09-19
Sampling Duration (minutes)	1440
Sampling Location :	TOP OF THE FIRE STATION-AIR SIDE

TEST REPORT

Sr. No	Test parameters	UoM	Method of Testing	Results	NAAQS Limits
1	Particulate Matter as PM10	µg/m ³	IS-5182(P-23)	59.3	100
2	Particulate Matter as PM2.5	µg/m ³	IS-5182(P-24)	31.7	60
3	Sulphur dioxide as SO ₂	µg/m ³	IS-5182 (Part-02)	19.5	80
4	Nitrogen dioxide as NO ₂	µg/m ³	IS-5182 (Part-06)	23.2	80
5	Ozone (O ₃)	µg/m ³	Method-411	14.1	100
6	Carbon monoxide (CO)	mg/m ³	IS-5182 (Part-10)	0.488	02
7	Ammonia (NH ₃)	µg/m ³	Indophenol Blue Method	BDL	400
8	Lead (Pb)	µg/m ³	IS-5182 (Part-22)	BDL	01
9	Arsenic (As)	ng/m ³	IS-5182 (Part-22)	BDL	06
10	Nickel (Ni)	ng/m ³	IS-5182 (Part-22)	BDL	20
11	Benzene (C ₆ H ₆)	µg/m ³	ASTM D 3686-95	BDL	05
12	Benzo (A) Pyrene (BaP)	ng/m ³	USEPA 8270D	BDL	01

Remarks:

Carbon Monoxide detectable Limit 10µg/m³
Lead Detectable Limit 0.01µg/m³
Arsenic and Nickel Detectable Limit 2ng/m³
Benzene Detectable Limit 2 µg/m³
B(a)P Detectable Limit 0. 2ng/m³



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Sample Name :	Ambient Air Quality Monitoring
Test Required :	Particulate Matter(PM10), Particulate Matter(PM2.5), Sulphur dioxide as SO2, Nitrogen dioxides as NO2, Ozone (O3), Carbon monoxide (CO), Ammonia (NH3), Lead (Pb), Arsenic (As), Nickel (Ni), Benzene (C6H6) and Benzo (A) Pyrene (BaP).
Sampling Date :	2022-09-17
Analysis Starting Date :	2022-09-19
Sampling Duration (minutes)	1440
Sampling Location :	TOP OF SCADA BUILDING

TEST REPORT

Sr. No	Test parameters	UoM	Method of Testing	Results	NAAQS Limits
1	Particulate Matter as PM10	µg/m ³	IS-5182(P-23)	57.3	100
2	Particulate Matter as PM2.5	µg/m ³	IS-5182(P-24)	28.8	60
3	Sulphur dioxide as SO2	µg/m ³	IS-5182 (Part-02)	17.3	80
4	Nitrogen dioxide as NO2	µg/m ³	IS-5182 (Part-06)	20.3	80
5	Ozone (O3)	µg/m ³	Method-411	11.2	100
6	Carbon monoxide (CO)	mg/m ³	IS-5182 (Part-10)	0.449	02
7	Ammonia (NH3)	µg/m ³	Indophenol Blue Method	BDL	400
8	Lead (Pb)	µg/m ³	IS-5182 (Part-22)	BDL	01
9	Arsenic (As)	ng/m ³	IS-5182 (Part-22)	BDL	06
10	Nickel (Ni)	ng/m ³	IS-5182 (Part-22)	BDL	20
11	Benzene (C6H6)	µg/m ³	ASTM D 3686-95	BDL	05
12	Benzo (A) Pyrene (BaP)	ng/m ³	USEPA 8270D	BDL	01

Remarks:

Carbon Monoxide detectable Limit 10µg/m³
Lead Detectable Limit 0.01µg/m³
Arsenic and Nickel Detectable Limit 2ng/m³
Benzene Detectable Limit 2 µg/m³
B(a)P Detectable Limit 0. 2ng/m³



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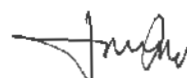
Sample Name :	Ambient Air Quality Monitoring
Test Required :	Particulate Matter(PM10), Particulate Matter(PM2.5), Sulphur dioxide as SO ₂ , Nitrogen dioxides as NO ₂ , Ozone (O ₃), Carbon monoxide (CO), Ammonia (NH ₃), Lead (Pb), Arsenic (As), Nickel (Ni), Benzene (C ₆ H ₆) and Benzo (A) Pyrene (BaP).
Sampling Date :	2022-09-17
Analysis Starting Date :	2022-09-19
Sampling Duration (minutes)	1440
Sampling Location :	Near Terminal-I Building

TEST REPORT

Sr. No	Test parameters	UoM	Method of Testing	Results	NAAQS Limits
1	Particulate Matter as PM10	µg/m ³	IS-5182(P-23)	56.4	100
2	Particulate Matter as PM2.5	µg/m ³	IS-5182(P-24)	28.1	60
3	Sulphur dioxide as SO ₂	µg/m ³	IS-5182 (Part-02)	16.6	80
4	Nitrogen dioxide as NO ₂	µg/m ³	IS-5182 (Part-06)	19.6	80
5	Ozone (O ₃)	µg/m ³	Method-411	11.7	100
6	Carbon monoxide (CO)	mg/m ³	IS-5182 (Part-10)	0.450	02
7	Ammonia (NH ₃)	µg/m ³	Indophenol Blue Method	BDL	400
8	Lead (Pb)	µg/m ³	IS-5182 (Part-22)	BDL	01
9	Arsenic (As)	ng/m ³	IS-5182 (Part-22)	BDL	06
10	Nickel (Ni)	ng/m ³	IS-5182 (Part-22)	BDL	20
11	Benzene (C ₆ H ₆)	µg/m ³	ASTM D 3686-95	BDL	05
12	Benzo (A) Pyrene (BaP)	ng/m ³	USEPA 8270D	BDL	01

Remarks:

Carbon Monoxide detectable Limit 10µg/m³
Lead Detectable Limit 0.01µg/m³
Arsenic and Nickel Detectable Limit 2ng/m³
Benzene Detectable Limit 2 µg/m³
B(a)P Detectable Limit 0. 2ng/m³



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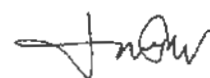
Sample Name :	Ambient Air Quality Monitoring
Test Required :	Particulate Matter(PM10), Particulate Matter(PM2.5), Sulphur dioxide as SO ₂ , Nitrogen dioxides as NO ₂ , Ozone (O ₃), Carbon monoxide (CO), Ammonia (NH ₃), Lead (Pb), Arsenic (As), Nickel (Ni), Benzene (C ₆ H ₆) and Benzo (A) Pyrene (BaP).
Sampling Date :	2022-09-17
Analysis Starting Date :	2022-09-19
Sampling Duration (minutes)	1440
Sampling Location :	Near Project Office

TEST REPORT

Sr. No	Test parameters	UoM	Method of Testing	Results	NAAQS Limits
1	Particulate Matter as PM10	µg/m ³	IS-5182(P-23)	57.8	100
2	Particulate Matter as PM2.5	µg/m ³	IS-5182(P-24)	26.4	60
3	Sulphur dioxide as SO ₂	µg/m ³	IS-5182 (Part-02)	15.5	80
4	Nitrogen dioxide as NO ₂	µg/m ³	IS-5182 (Part-06)	19.1	80
5	Ozone (O ₃)	µg/m ³	Method-411	9.5	100
6	Carbon monoxide (CO)	mg/m ³	IS-5182 (Part-10)	0.439	02
7	Ammonia (NH ₃)	µg/m ³	Indophenol Blue Method	BDL	400
8	Lead (Pb)	µg/m ³	IS-5182 (Part-22)	BDL	01
9	Arsenic (As)	ng/m ³	IS-5182 (Part-22)	BDL	06
10	Nickel (Ni)	ng/m ³	IS-5182 (Part-22)	BDL	20
11	Benzene (C ₆ H ₆)	µg/m ³	ASTM D 3686-95	BDL	05
12	Benzo (A) Pyrene (BaP)	ng/m ³	USEPA 8270D	BDL	01

Remarks:

Carbon Monoxide detectable Limit 10µg/m³
Lead Detectable Limit 0.01µg/m³
Arsenic and Nickel Detectable Limit 2ng/m³
Benzene Detectable Limit 2 µg/m³
B(a)P Detectable Limit 0. 2ng/m³



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SAMPLE PARTICULARS : Drinking Water

Frequency Of Sampling : One Grab sample in a Quarter
Month of Sampling : September 2022
Quantity Collected for Analysis : 5 Liter
Type of Container used for sampling : HDPE Plastic Container-3 L
Amberlite Glass Container-2 L
Test Required : As per IS 10500:2012
Sample Collected On : 09.09.2022
Analysis Start Date : 12.09.2022
Analysis Completion Date : 22.09.2022
Sample collected by Vimta Labs Ltd.,


TEST REPORT

Sr.No	Parameter	UoM	Method of Testing	Terminal-1 DW1	Terminal-2 DW2	ATC building DW3	Limits as per IS 10500 : 2012
1	pH	-	IS 3025 (Part-11)	7.87	7.76	7.81	6.5 – 8.5 (NR)
2	Colour	Hazen	IS:3025 (Part 4):1983	Colourless	Colourless	Colourless	5(15)
3	Taste	-	IS 3025 (Part 7 & 8):	Agreeable	Agreeable	Agreeable	Agreeable
4	Odour	-	IS 3025 (Part 5)	Agreeable	Agreeable	Agreeable	Agreeable
5	Conductivity	µS/cm	APHA 23 rd (2510B)	278	356	460	\$
6	Turbidity	NTU	IS 3025 (Part 10)	<1	<1	<1	1(5)
7	TDS	mg/l	IS 3025 (Part 16)	176	228	290	500(2000)
8	Total Hardness (as CaCO ₃)	mg/l	IS 3025 (Part-21)	88.3	114.3	142.1	200(600)
9	Total Alkalinity as CaCO ₃	mg/l	IS 3025 (Part-23)	76	90	127	200(600)
10	Calcium (as Ca)	mg/l	IS 3025 (part-40)	16.4	22.5	26.4	75(200)
11	Magnesium (as Mg)	mg/l	IS 3025 (Part-46)	11.5	14.1	18.5	30(100)
12	Free residual Chlorine	mg/l	IS:3025 (Part 26, 1.2)	<0.1	<0.1	<0.1	0.2(1)
13	Boron (as B)	mg/l	IS:13428:2005	<0.01	<0.01	0.02	0.5(1)
14	Chlorides (as Cl)	mg/l	IS 3025 (Part 32)	32.6	43.8	52.7	250(1000)
15	Sulphates (as SO ₄)	mg/l	IS 3025 (part-24)	11.8	17.2	19.5	200(400)
16	Fluorides (as F)	mg/l	APHA 23 rd (4500)	0.3	0.4	0.6	1.0(1.5)

Note: \$ - Limits not specified;

NR - No Relaxation

Limits are shown in IS 10500 are Acceptable limits (Requirement) and in parenthesis are Permissible limit in absence of alternate Source



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SAMPLE PARTICULARS : Drinking Water

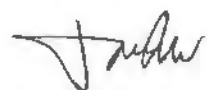
TEST REPORT

Sr.No	Parameter	UoM	Method of Testing	Terminal-1 DW1	Terminal-2 DW2	ATC building DW3	Limits as per IS 10500 : 2012
17	Nitrates (as NO ₃)	mg/l	APHA 23 rd (4500)	4.6	8.2	6.8	45(NR)
18	Sodium as Na	mg/l	APHA 23 rd (3500 Na)	21.6	27.5	37.4	\$
19	Potassium as K	mg/l	APHA 23 rd (3500 K)	3.1	2.8	4.5	\$
20	Phenolic Compounds	mg/l	IS:3025 (Part 43)	<0.001	<0.001	<0.001	0.001(0.002)
21	Cyanides(as CN)	mg/l	IS:3025 (Part 27,3	<0.02	<0.02	<0.02	0.05 (NR)
22	Anionic Detergents	mg/l	IS:13428:2005	<0.02	<0.02	<0.02	0.2 (1.0)
23	Mineral Oil	mg/l	IS 3025 (Part 39):	<0.01	<0.01	<0.01	0.5 (NR)
24	Cadmium (as Cd)	mg/l	APHA 23 rd 3125	<0.003	<0.003	<0.003	0.003 (NR)
25	Total Arsenic (as As)	mg/l	APHA 23 rd 3125	<0.01	<0.01	<0.01	0.01 (0.05)
26	Copper (as Cu)	mg/l	IS:3025 Part 2:2004	<0.01	<0.01	<0.01	0.05 (1.5)
27	Lead (as Pb)	mg/l	APHA 23 rd 3125	<0.01	<0.01	<0.01	0.01 (NR)
28	Manganese (as Mn)	mg/l	APHA 23 rd 3125	<0.01	<0.01	<0.01	0.1 (0.3)
29	Iron (as Fe)	mg/l	APHA 23 rd 3125	<0.01	0.01	<0.01	0.3(NR)
30	Total Chromium (as Cr)	mg/l	APHA 23 rd 3125	<0.01	<0.01	<0.01	0.05(NR)
31	Selenium (as Se)	mg/l	IS:15303:2003	<0.01	<0.01	<0.01	0.01(NR)
32	Zinc (as Zn)	mg/l	IS:3025 Part 2:2004	0.02	0.03	<0.01	5(15)
33	Aluminum (as Al)	mg/l	IS:3025 (Part 55)	<0.001	<0.001	<0.001	0.03(0.2)
34	Mercury (as Hg)	mg/l	APHA 23 rd 3125	<0.001	<0.001	<0.001	0.001(NR)
35	Pesticides	µg/l	APHA 23 rd	Absent	Absent	Absent	Absent
36	E. Coil	-	IS 15185:: 2016	Absent	Absent	Absent	Absent
37	Total Coliforms	MPN/100	IS:15185:2016	Absent	Absent	Absent	10

Note: \$ - Limits not specified;

NR - No Relaxation

Limits are shown in IS 10500 are Acceptable limits (Requirement) and in parenthesis are Permissible limit in absence of alternate source.


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ISSUED TO:

**M/S. LUCKNOW INTERNATIONAL AIRPORT LIMITED.,
(CHAUDHARY CHARAN SINGH INTERNATIONAL
AIRPORT), AMAUSI, LUCKNOW,
UTTAR PRADESH-226009**

Report Number : VLL/VLS/22/10012/014
Issued Date : 2022.09.08
P. Order Ref : 5700309099
P.O. Date : 13.05.2022

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SAMPLE PARTICULARS : Drinking Water

Frequency Of Sampling : One Grab sample in a Quarter
Month of Sampling : **September 2022**
Quantity Collected for Analysis : 5 Liter
Type of Container used for sampling : HDPE Plastic Container-3 L
Amberlite Glass Container-2 L
Test Required : As per IS 10500:2012
Sample Collected On : 09.09.2022
Analysis Start Date : 12.09.2022
Analysis Completion Date : 22.09.2022
Sample collected by Vimta Labs Ltd.,


TEST REPORT

Sr.No	Parameter	UoM	Method of Testing	DGCA building DW4	Project Office DW5	Admin Office DW6	Limits as per IS 10500 : 2012
1	pH	-	IS 3025 (Part-11)	7.55	7.81	7.91	6.5 – 8.5 (NR)
2	Colour	Hazen	IS:3025 (Part 4):1983	Colourless	Colourless	Colourless	5(15)
3	Taste	-	IS 3025 (Part 7 & 8):	Agreeable	Agreeable	Agreeable	Agreeable
4	Odour	-	IS 3025 (Part 5)	Agreeable	Agreeable	Agreeable	Agreeable
5	Conductivity	µS/cm	APHA 23 rd (2510B)	243	377	455	\$
6	Turbidity	NTU	IS 3025 (Part 10)	<1	<1	<1	1(5)
7	TDS	mg/l	IS 3025 (Part 16)	151	240	289	500(2000)
8	Total Hardness (as CaCO ₃)	mg/l	IS 3025 (Part-21)	88.6	110.4	132.0	200(600)
9	Total Alkalinity as CaCO ₃	mg/l	IS 3025 (Part-23)	65	98	125	200(600)
10	Calcium (as Ca)	mg/l	IS 3025 (part-40)	19.8	23.6	24.5	75(200)
11	Magnesium (as Mg)	mg/l	IS 3025 (Part-46)	9.5	12.5	17.2	30(100)
12	Free residual Chlorine	mg/l	IS:3025 (Part 26, 1.2)	<0.1	<0.1	<0.1	0.2(1)
13	Boron (as B)	mg/l	IS:13428:2005	<0.01	<0.01	0.02	0.5(1)
14	Chlorides (as Cl)	mg/l	IS 3025 (Part 32)	27.4	46.2	51.7	250(1000)
15	Sulphates (as SO ₄)	mg/l	IS 3025 (part-24)	13.7	18.9	23.7	200(400)
16	Fluorides (as F)	mg/l	APHA 23 rd (4500)	0.3	0.5	0.4	1.0(1.5)

Note: \$ - Limits not specified;

NR - No Relaxation

Limits are shown in IS 10500 are Acceptable limits (Requirement) and in parenthesis are Permissible limit in absence of alternate source.



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SAMPLE PARTICULARS : Drinking Water

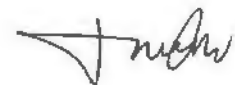
TEST REPORT

Sr.No	Parameter	UoM	Method of Testing	DGCA building DW4	Project Office DW5	Admin Office DW6	Limits as per IS 10500 : 2012
17	Nitrates (as NO ₃)	mg/l	APHA 23 rd (4500)	3.7	4.9	4.2	45(NR)
18	Sodium as Na	mg/l	APHA 23 rd (3500 Na)	13.7	33.9	41.5	\$
19	Potassium as K	mg/l	APHA 23 rd (3500 K)	2.8	3.4	4.4	\$
20	Phenolic Compounds	mg/l	IS:3025 (Part 43)	<0.001	<0.001	<0.001	0.001(0.002)
21	Cyanides(as CN)	mg/l	IS:3025 (Part 27,3)	<0.02	<0.02	<0.02	0.05 (NR)
22	Anionic Detergents	mg/l	IS:13428:2005	<0.02	<0.02	<0.02	0.2 (1.0)
23	Mineral Oil	mg/l	IS 3025 (Part 39):	<0.01	<0.01	<0.01	0.5 (NR)
24	Cadmium (as Cd)	mg/l	APHA 23 rd 3125	<0.003	<0.003	<0.003	0.003 (NR)
25	Total Arsenic (as As)	mg/l	APHA 23 rd 3125	<0.01	<0.01	<0.01	0.01 (0.05)
26	Copper (as Cu)	mg/l	IS:3025 Part 2:2004	<0.01	<0.01	<0.01	0.05 (1.5)
27	Lead (as Pb)	mg/l	APHA 23 rd 3125	<0.01	<0.01	<0.01	0.01 (NR)
28	Manganese (as Mn)	mg/l	APHA 23 rd 3125	<0.01	<0.01	<0.01	0.1 (0.3)
29	Iron (as Fe)	mg/l	APHA 23 rd 3125	<0.01	0.01	0.01	0.3(NR)
30	Total Chromium (as Cr)	mg/l	APHA 23 rd 3125	<0.01	<0.01	<0.01	0.05(NR)
31	Selenium (as Se)	mg/l	IS:15303:2003	<0.01	<0.01	<0.01	0.01(NR)
32	Zinc (as Zn)	mg/l	IS:3025 Part 2:2004	0.02	0.01	0.04	5(15)
33	Aluminum (as Al)	mg/l	IS:3025 (Part 55)	<0.01	<0.01	<0.01	0.03(0.2)
34	Mercury (as Hg)	mg/l	APHA 23 rd 3125	<0.001	<0.001	<0.001	0.001(NR)
35	Pesticides	µg/l	APHA 23 rd	Absent	Absent	Absent	Absent
36	E. Coil	-	IS 15185:: 2016	Absent	Absent	Absent	Absent
37	Total Coliforms	MPN/100	IS:15185:2016	Absent	Absent	Absent	10

Note: \$ - Limits not specified;

NR - No Relaxation

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UTTAR PRADESH - 226009

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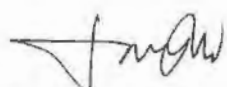
Page 1 of 2

SAMPLE PARTICULARS : Cooling Tower Water

Frequency Of Sampling	: One Grab sample in a Month
Month of Sampling	: September 2022
Quantity Collected for Analysis	: 5 Liter
Type of Container used for sampling	: HDPE Plastic Container-3 L Amberlite Glass Container-2 L
Test Required	: As per IS 10500:2012
Sample Collected On	: 09.09.2022
Analysis Start Date	: 12.09.2022
Analysis Completion Date	: 22.09.2022
Sample collected by Vimta Labs Ltd.,	

TEST REPORT

Sr.No.	Parameter	UoM	Method of Testing	Cooling Tower Water Near CCR	Cooling Tower Water Near Scada
1	pH	--	IS 3025 (Part-11)	7.43	7.27
2	Salinity	ppt	APHA 23 rd (2520B)	0.184	0.121
3	Conductivity	µs/cm	APHA 23 rd (2510B)	1109	742
4	Total Dissolved Solids	mg/l	IS 3025 (Part 16)	715	476
5	Chlorides as Cl	mg/l	IS 3025 (Part 32)	102.3	67.5
6	Mercury as Hg	mg/l	APHA 23 rd 3125	<0.001	<0.001
7	Arsenic as As	mg/l	APHA 23 rd 3125	<0.01	<0.01
8	Lead as Pb	mg/l	APHA 23 rd 3125	<0.01	<0.01
9	Chromium as Cr	mg/l	APHA 23 rd 3125	<0.01	<0.01
10	Cadmium as Cd	mg/l	APHA 23 rd 3125	<0.003	<0.003
11	Total Alkalinity as CaCO ₃	mg/l	IS 3025 (Part-23)	310	212
12	Calcium as Ca	mg/l	IS 3025 (part	77.5	68.3
13	Magnesium as Mg	mg/l	IS 3025 (Part	38.7	24.2
14	Sodium as Na	mg/l	APHA 23 rd (3500 Na)	82.9	39.5
15	Potassium as K	mg/l	APHA 23 rd (3500 K)	15.8	11.4
16	Sulphates as SO ₄	mg/l	IS 3025 (part-24)	84.6	53.4
17	Nitrates as NO ₃	mg/l	APHA 23 rd (4500)	9.5	6.8


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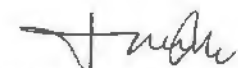
Report Number : VLL/VLS/22/10012/015
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SAMPLE PARTICULARS : Cooling Tower Water

TEST REPORT

Sr.No.	Parameter	UoM	Method of Testing	Cooling Tower Water Near CCR	Cooling Tower Water Near Scada
18	Phosphates as PO ₄	mg/l	APHA 23 rd (4500 -P D)	0.05	0.03
19	Barium as Ba	mg/l	APHA 23 rd 3125	0.012	0.009
20	Fluoride as F	mg/l	APHA 23 rd (4500)	0.8	0.5
21	Cobalt as Co	mg/l	APHA 23 rd 3125	<0.01	<0.01
22	Copper as Cu	mg/l	APHA 23 rd 3125	<0.01	<0.01
23	Manganese as Mn	mg/l	APHA 23 rd 3125	<0.01	<0.01
24	Nickel as Ni	mg/l	APHA 23 rd 3125	<0.01	<0.01
25	Total Hardness as CaCO ₃	mg/l	IS 3025 (Part-21)	353	270
26	Iron as Fe	mg/l	APHA 23 rd 3125	0.08	0.06
27	Silica as SiO ₂	mg/l	APHA 23 rd (4500 - SiO ₂)	5.3	4.6
28	Total Coliforms	MPN/100ml	APHA9221	<1.8	<1.8
29	Legionella	Per 1000ml	APHA 9260J	Absent	Absent


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SAMPLE PARTICULARS : Ground Water
Frequency Of Sampling : One Grab sample in a Quarter
Month of Sampling : **September 2022**
Quantity Collected for Analysis : 5 Liter
Type of Container used for sampling : HDPE Plastic Container-3 L
Amberlite Glass Container-2 L
Test Required : As per IS 10500:2012
Sample Collected On : 09.09.2022
Analysis Start Date : 12.09.2022
Analysis Completion Date : 22.09.2022
Sample collected by Vimta Labs Ltd.,

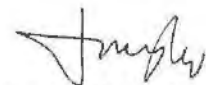
TEST REPORT

Sr.No	Parameter	UoM	Method of Testing	Near CCR Room, Terminal-1	Near Pump House, Terminal-2	Limits as per IS 10500 : 2012
1	pH	-	IS 3025 (Part-11)	7.45	7.81	6.5 – 8.5 (NR)
2	Colour	Hazen	IS:3025 (Part 4):1983	1	1	5(15)
3	Taste	-	IS 3025 (Part 7 & 8):	Agreeable	Agreeable	Agreeable
4	Odour	-	IS 3025 (Part 5)	Agreeable	Agreeable	Agreeable
5	Conductivity	µS/cm	APHA 23 rd (2510B)	517	441	5
6	Turbidity	NTU	IS 3025 (Part 10)	1	1	1(5)
7	TDS	mg/l	IS 3025 (Part 16)	325	286	500(2000)
8	Total Hardness (as CaCO ₃)	mg/l	IS 3025 (Part-21)	156	132	200(600)
9	Total Alkalinity as CaCO ₃	mg/l	IS 3025 (Part-23)	123	105	200(600)
10	Calcium (as Ca)	mg/l	IS 3025 (part-40)	32.4	27.3	75(200)
11	Magnesium (as Mg)	mg/l	IS 3025 (Part-46)	18.3	15.6	30(100)
12	Free residual Chlorine	mg/l	IS:3025 (Part 26, 1.2)	<0.1	<0.1	0.2(1)
13	Boron (as B)	mg/l	IS:13428:2005	0.03	0.02	0.5(1)
14	Chlorides (as Cl)	mg/l	IS 3025 (Part 32)	63.2	59.7	250(1000)
15	Sulphates (as SO ₄)	mg/l	IS 3025 (part-24)	34.7	23.2	200(400)
16	Fluorides (as F)	mg/l	APHA 23 rd (4500)	0.9	0.6	1.0(1.5)

Note: \$ - Limits not specified;

NR - No Relaxation

Limits are shown in IS 10500 are Acceptable limits (Requirement) and in parenthesis are Permissible limit in absence of alternate source.



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SAMPLE PARTICULARS : Ground Water

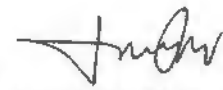
TEST REPORT

Sr.No	Parameter	UoM	Method of Testing	Near CCR Room, Terminal-1	Near Pump House, Terminal-2	Limits as per IS 10500 : 2012
17	Nitrates (as NO ₃)	mg/l	APHA 23 rd (4500)	8.6	6.2	45(NR)
18	Sodium as Na	mg/l	APHA 23 rd (3500 Na)	45.6	38.5	\$
19	Potassium as K	mg/l	APHA 23 rd (3500 K)	2.9	3.4	\$
20	Phenolic Compounds	mg/l	IS:3025 (Part 43)	<0.001	<0.001	0.001(0.002)
21	Cyanides(as CN)	mg/l	IS:3025 (Part 27,3)	<0.02	<0.02	0.05 (NR)
22	Anionic Detergents	mg/l	IS:13428:2005	<0.02	<0.02	0.2 (1.0)
23	Mineral Oil	mg/l	IS 3025 (Part 39):	<0.01	<0.01	0.5 (NR)
24	Cadmium (as Cd)	mg/l	APHA 23 rd 3125	<0.003	<0.003	0.003 (NR)
25	Total Arsenic (as As)	mg/l	APHA 23 rd 3125	<0.01	<0.01	0.01 (0.05)
26	Copper (as Cu)	mg/l	IS:3025 Part 2:2004	<0.01	<0.01	0.05 (1.5)
27	Lead (as Pb)	mg/l	APHA 23 rd 3125	<0.01	<0.01	0.01 (NR)
28	Manganese (as Mn)	mg/l	APHA 23 rd 3125	<0.01	<0.01	0.1 (0.3)
29	Iron (as Fe)	mg/l	APHA 23 rd 3125	0.07	0.11	0.3(NR)
30	Total Chromium (as Cr)	mg/l	APHA 23 rd 3125	<0.01	<0.01	0.05(NR)
31	Selenium (as Se)	mg/l	IS:15303:2003	<0.01	<0.01	0.01(NR)
32	Zinc (as Zn)	mg/l	IS:3025 Part 2:2004	0.31	0.27	5(15)
33	Aluminum (as Al)	mg/l	IS:3025 (Part 55)	<0.01	<0.01	0.03(0.2)
34	Mercury (as Hg)	mg/l	APHA 23 rd 3125	<0.001	<0.001	0.001(NR)
35	Pesticides	µg/l	APHA 23 rd	Absent	Absent	Absent
36	E. Coil	-	IS 15185:: 2016	Absent	Absent	Absent
37	Total Coliforms	MPN/100	IS:15185:2016	<2	<2	10

Note: \$ - Limits not specified;

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SAMPLE PARTICULARS : Ground Water

Frequency Of Sampling : One Grab sample in a Quarter
Month of Sampling : September 2022
Quantity Collected for Analysis : 5 Liter
Type of Container used for sampling : HDPE Plastic Container-3 L
Amberlite Glass Container-2 L
Test Required : As per IS 10500:2012
Sample Collected On : 09.09.2022
Analysis Start Date : 12.09.2022
Analysis Completion Date : 22.09.2022
Sample collected by Vimta Labs Ltd.,

TEST REPORT

Sr.No	Parameter	UoM	Method of Testing	Near ATC DW1	Near DGCA DW2	Community Center-1 DW3	Limits as per IS 10500 : 2012
1	pH	-	IS 3025 (Part-11)	7.18	7.46	7.29	6.5 – 8.5 (NR)
2	Colour	Hazen	IS:3025 (Part 4):1983	Colourless	Colourless	Colourless	5(15)
3	Taste	-	IS 3025 (Part 7 & 8):	Agreeable	Agreeable	Agreeable	Agreeable
4	Odour	-	IS 3025 (Part 5)	Agreeable	Agreeable	Agreeable	Agreeable
5	Conductivity	µS/cm	APHA 23 rd (2510B)	316	407	377	\$
6	Turbidity	NTU	IS 3025 (Part 10)	1	1	2	1(5)
7	TDS	mg/l	IS 3025 (Part 16)	198	252	380	500(2000)
8	Total Hardness (as CaCO ₃)	mg/l	IS 3025 (Part-21)	118.1	165.4	140.6	200(600)
9	Total Alkalinity as CaCO ₃	mg/l	IS 3025 (Part-23)	110	138	124	200(600)
10	Calcium (as Ca)	mg/l	IS 3025 (part-40)	25.7	32.8	24.3	75(200)
11	Magnesium (as Mg)	mg/l	IS 3025 (Part-46)	12.6	20.5	19.4	30(100)
12	Free residual Chlorine	mg/l	IS:3025 (Part 26, 1.2)	<0.1	<0.1	<0.1	0.2(1)
13	Boron (as B)	mg/l	IS:13428:2005	<0.01	<0.01	<0.01	0.5(1)
14	Chlorides (as Cl)	mg/l	IS 3025 (Part 32)	22.5	33.6	29.7	250(1000)
15	Sulphates (as SO ₄)	mg/l	IS 3025 (part-24)	11.4	13.8	15.2	200(400)
16	Fluorides (as F)	mg/l	APHA 23 rd (4500)	0.3	0.4	0.6	1.0(1.5)

Note: \$ - Limits not specified;

NR - No Relaxation

Limits are shown in IS 10500 are Acceptable limits (Requirement) and in parenthesis are Permissible limit in absence of alternate Source

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SAMPLE PARTICULARS : Ground Water

TEST REPORT

Sr.No	Parameter	UoM	Method of Testing	Near ATC DW1	Near DGCA DW2	Community Center-1 DW3	Limits as per IS 10500 : 2012
17	Nitrates (as NO ₃)	mg/l	APHA 23 rd (4500)	4.3	2.9	6.7	45(NR)
18	Sodium as Na	mg/l	APHA 23 rd (3500 Na)	18.4	15.7	21.2	\$
19	Potassium as K	mg/l	APHA 23 rd (3500 K)	1.8	2.4	1.4	\$
20	Phenolic Compounds	mg/l	IS:3025 (Part 43)	<0.001	<0.001	<0.001	0.001(0.002)
21	Cyanides(as CN)	mg/l	IS:3025 (Part 27,3)	<0.02	<0.02	<0.02	0.05 (NR)
22	Anionic Detergents	mg/l	IS:13428:2005	<0.02	<0.02	<0.02	0.2 (1.0)
23	Mineral Oil	mg/l	IS 3025 (Part 39):	<0.01	<0.01	<0.01	0.5 (NR)
24	Cadmium (as Cd)	mg/l	APHA 23 rd 3125	<0.003	<0.003	<0.003	0.003 (NR)
25	Total Arsenic (as As)	mg/l	APHA 23 rd 3125	<0.01	<0.01	<0.01	0.01 (0.05)
26	Copper (as Cu)	mg/l	IS:3025 Part 2:2004	<0.01	<0.01	<0.01	0.05 (1.5)
27	Lead (as Pb)	mg/l	APHA 23 rd 3125	<0.01	<0.01	<0.01	0.01 (NR)
28	Manganese (as Mn)	mg/l	APHA 23 rd 3125	<0.01	<0.01	<0.01	0.1 (0.3)
29	Iron (as Fe)	mg/l	APHA 23 rd 3125	0.06	0.04	0.07	0.3(NR)
30	Total Chromium (as Cr)	mg/l	APHA 23 rd 3125	<0.01	<0.01	<0.01	0.05(NR)
31	Selenium (as Se)	mg/l	IS:15303:2003	<0.01	<0.01	<0.01	0.01(NR)
32	Zinc (as Zn)	mg/l	IS:3025 Part 2:2004	0.16	0.11	0.09	5(15)
33	Aluminum (as Al)	mg/l	IS:3025 (Part 55)	<0.01	<0.01	0.01	0.03(0.2)
34	Mercury (as Hg)	mg/l	APHA 23 rd 3125	<0.001	<0.001	<0.001	0.001(NR)
35	Pesticides	µg/l	APHA 23 rd	Absent	Absent	Absent	Absent
36	E. Coil	-	IS 15185:: 2016	Absent	Absent	Absent	Absent
37	Total Coliforms	MPN/100	IS:15185:2016	Absent	Absent	Absent	10

Note: \$ - Limits not specified;

NR - No Relaxation

Limits are shown in IS 10500 are Acceptable limits (Requirement) and in parenthesis are Permissible limit in absence of alternate source.

Dr. SubbaReddy Mallampati
Dy. Manager-Environment

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ISSUED TO:

M/S. LUCKNOW INTERNATIONAL AIRPORT LIMITED.,
(CHAUDHARY CHARAN SINGH INTERNATIONAL
AIRPORT), AMAUSI, LUCKNOW,
UTTAR PRADESH-226009

Report Number : VLL/VLS/22/10012/018
Issued Date : 2022.10.08
P. Order Ref : 5700309099
P.O. Date : 13.05.2022

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SAMPLE PARTICULARS : Ground Water

Frequency Of Sampling : One Grab sample in a Quarter
Month of Sampling : September 2022
Quantity Collected for Analysis : 5 Liter
Type of Container used for sampling : HDPE Plastic Container-3 L
Amberlite Glass Container-2 L
Test Required : As per IS 10500:2012
Sample Collected On : 09.09.2022
Analysis Start Date : 12.09.2022
Analysis Completion Date : 22.09.2022
Sample collected by Vimta Labs Ltd.,

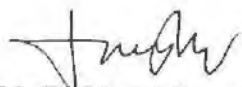
TEST REPORT

Sr.No	Parameter	UoM	Method of Testing	Community Center-2 DW4	Auto Parking area DW5	Near CISF Barak DW6	Limits as per IS 10500 : 2012
1	pH	-	IS 3025 (Part-11)	7.29	7.05	7.19	6.5 – 8.5 (NR)
2	Colour	Hazen	IS:3025 (Part 4):1983	Colourless	Colourless	Colourless	5(15)
3	Taste	-	IS 3025 (Part 7 & 8):	Agreeable	Agreeable	Agreeable	Agreeable
4	Odour	-	IS 3025 (Part 5)	Agreeable	Agreeable	Agreeable	Agreeable
5	Conductivity	µS/cm	APHA 23 rd (2510B)	462	542	322	\$
6	Turbidity	NTU	IS 3025 (Part 10)	1	1	1	1(5)
7	TDS	mg/l	IS 3025 (Part 16)	294	336	209	500(2000)
8	Total Hardness (as CaCO ₃)	mg/l	IS 3025 (Part-21)	163	182	121	200(600)
9	Total Alkalinity as CaCO ₃	mg/l	IS 3025 (Part-23)	150	165	106	200(600)
10	Calcium (as Ca)	mg/l	IS 3025 (part-40)	42.2	34.3	23.4	75(200)
11	Magnesium (as Mg)	mg/l	IS 3025 (Part-46)	14.2	23.4	15.3	30(100)
12	Free residual Chlorine	mg/l	IS:3025 (Part 26, 1.2)	<0.1	<0.1	<0.1	0.2(1)
13	Boron (as B)	mg/l	IS:13428:2005	<0.01	<0.01	<0.01	0.5(1)
14	Chlorides (as Cl)	mg/l	IS 3025 (Part 32)	34.4	51.3	25.8	250(1000)
15	Sulphates (as SO ₄)	mg/l	IS 3025 (part-24)	26.1	25.9	14.2	200(400)
16	Fluorides (as F)	mg/l	APHA 23 rd (4500)	0.7	0.5	0.3	1.0(1.5)

Note: \$ - Limits not specified;

NR - No Relaxation

Limits are shown in IS 10500 are Acceptable limits (Requirement) and in parenthesis are Permissible limit in absence of alternate Source


Dr. SubbaReddy Mallampati
Dy. Manager-Environment

ISSUED TO:

**M/S. LUCKNOW INTERNATIONAL AIRPORT LIMITED.,
(CHAUDHARY CHARAN SINGH INTERNATIONAL
AIRPORT), AMAUSI, LUCKNOW,
UTTAR PRADESH-226009**

Report Number : VLL/VLS/22/10012/018
Issued Date : 2022.10.08
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P.O. Date : 13.05.2022

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SAMPLE PARTICULARS : Ground Water

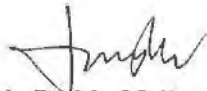
TEST REPORT

Sr.No	Parameter	UoM	Method of Testing	Community Center-2 DW4	Auto Parking area DW5	Near CISF Barak DW6	Limits as per IS 10500 : 2012
17	Nitrates (as NO ₃)	mg/l	APHA 23 rd (4500)	3.8	5.4	3.3	45(NR)
18	Sodium as Na	mg/l	APHA 23 rd (3500 Na)	29.4	38.6	17.2	\$
19	Potassium as K	mg/l	APHA 23 rd (3500 K)	2.6	4.3	2.1	\$
20	Phenolic Compounds	mg/l	IS:3025 (Part 43)	<0.001	<0.001	<0.001	0.001(0.002)
21	Cyanides(as CN)	mg/l	IS:3025 (Part 27,3)	<0.02	<0.02	<0.02	0.05 (NR)
22	Anionic Detergents	mg/l	IS:13428:2005	<0.02	<0.02	<0.02	0.2 (1.0)
23	Mineral Oil	mg/l	IS 3025 (Part 39):	<0.01	<0.01	<0.01	0.5 (NR)
24	Cadmium (as Cd)	mg/l	APHA 23 rd 3125	<0.003	<0.003	<0.003	0.003 (NR)
25	Total Arsenic (as As)	mg/l	APHA 23 rd 3125	<0.01	<0.01	<0.01	0.01 (0.05)
26	Copper (as Cu)	mg/l	IS:3025 Part 2:2004	<0.01	<0.01	<0.01	0.05 (1.5)
27	Lead (as Pb)	mg/l	APHA 23 rd 3125	<0.01	<0.01	<0.01	0.01 (NR)
28	Manganese (as Mn)	mg/l	APHA 23 rd 3125	<0.01	<0.01	<0.01	0.1 (0.3)
29	Iron (as Fe)	mg/l	APHA 23 rd 3125	0.03	0.01	0.04	0.3(NR)
30	Total Chromium (as Cr)	mg/l	APHA 23 rd 3125	<0.01	<0.01	<0.01	0.05(NR)
31	Selenium (as Se)	mg/l	IS:15303:2003	<0.01	<0.01	<0.01	0.01(NR)
32	Zinc (as Zn)	mg/l	IS:3025 Part 2:2004	0.19	0.13	0.15	5(15)
33	Aluminum (as Al)	mg/l	IS:3025 (Part 55)	<0.01	<0.01	0.01	0.03(0.2)
34	Mercury (as Hg)	mg/l	APHA 23 rd 3125	<0.001	<0.001	<0.001	0.001(NR)
35	Pesticides	µg/l	APHA 23 rd	Absent	Absent	Absent	Absent
36	E. Coil	-	IS 15185:: 2016	Absent	Absent	Absent	Absent
37	Total Coliforms	MPN/100	IS:15185:2016	Absent	Absent	Absent	10

Note: \$ - Limits not specified;

NR - No Relaxation

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Dr. SubbaReddy Mallampati
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**ISSUED TO:**

M/S. LUCKNOW INTERNATIONAL AIRPORT LIMITED.,
(CHAUDHARY CHARAN SINGH INTERNATIONAL
AIRPORT), AMAUSI, LUCKNOW,
UTTAR PRADESH-226009

Report Number : VLL/VLS/22/10012/019
Issued Date : 2022.10.08
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SAMPLE PARTICULARS : Ground Water

Frequency Of Sampling : One Grab sample in a Quarter
Month of Sampling : **September 2022**
Quantity Collected for Analysis : 5 Liter
Type of Container used for sampling : HDPE Plastic Container-3 L
Amberlite Glass Container-2 L
Test Required : As per IS 10500:2012
Sample Collected On : 09.09.2022
Analysis Start Date : 12.09.2022
Analysis Completion Date : 22.09.2022
Sample collected by Vimta Labs Ltd.,

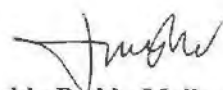
TEST REPORT

Sr.No	Parameter	UoM	Method of Testing	Residential Colony-1 DW7	Residential Colony-2 DW8	Limits as per IS 10500 : 2012
1	pH	-	IS 3025 (Part-11)	7.32	7.23	6.5 – 8.5 (NR)
2	Colour	Hazen	IS:3025 (Part 4):1983	Colourless	Colourless	5(15)
3	Taste	-	IS 3025 (Part 7 & 8):	Agreeable	Agreeable	Agreeable
4	Odour	-	IS 3025 (Part 5)	Agreeable	Agreeable	Agreeable
5	Conductivity	µS/cm	APHA 23 rd (2510B)	389	407	\$
6	Turbidity	NTU	IS 3025 (Part 10)	1	1	1(5)
7	TDS	mg/l	IS 3025 (Part 16)	245	268	500(2000)
8	Total Hardness (as CaCO ₃)	mg/l	IS 3025 (Part-21)	146.7	132.8	200(600)
9	Total Alkalinity as CaCO ₃	mg/l	IS 3025 (Part-23)	130	128	200(600)
10	Calcium (as Ca)	mg/l	IS 3025 (part-40)	31.7	22.5	75(200)
11	Magnesium (as Mg)	mg/l	IS 3025 (Part-46)	16.4	18.6	30(100)
12	Free residual Chlorine	mg/l	IS:3025 (Part 26, 1.2)	<0.1	<0.1	0.2(1)
13	Boron (as B)	mg/l	IS:13428:2005	<0.01	<0.01	0.5(1)
14	Chlorides (as Cl)	mg/l	IS 3025 (Part 32)	28.3	37.9	250(1000)
15	Sulphates (as SO ₄)	mg/l	IS 3025 (part-24)	18.9	14.8	200(400)
16	Fluorides (as F)	mg/l	APHA 23 rd (4500)	0.5	0.4	1.0(1.5)

Note: \$ - Limits not specified;

NR - No Relaxation

Limits are shown in IS 10500 are Acceptable limits (Requirement) and in parenthesis are Permissible limit in absence of alternate Source


Dr. SubbaReddy Mallampati
Dy. Manager-Environment

ISSUED TO:

**M/S. LUCKNOW INTERNATIONAL AIRPORT LIMITED.,
(CHAUDHARY CHARAN SINGH INTERNATIONAL
AIRPORT), AMAUSI, LUCKNOW,
UTTAR PRADESH-226009**

Report Number : VLL/VLS/22/10012/019
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SAMPLE PARTICULARS : Ground Water

TEST REPORT

Sr.No	Parameter	UoM	Method of Testing	Community Center-4 DW7	Residential Colony-1 DW8	Limits as per IS 10500 : 2012
17	Nitrates (as NO ₃)	mg/l	APHA 23 rd (4500)	3.9	5.7	45(NR)
18	Sodium as Na	mg/l	APHA 23 rd (3500 Na)	19.8	31.5	\$
19	Potassium as K	mg/l	APHA 23 rd (3500 K)	3.2	2.3	\$
20	Phenolic Compounds	mg/l	IS:3025 (Part 43)	<0.001	<0.001	0.001(0.002)
21	Cyanides(as CN)	mg/l	IS:3025 (Part 27,3	<0.02	<0.02	0.05 (NR)
22	Anionic Detergents	mg/l	IS:13428:2005	<0.02	<0.02	0.2 (1.0)
23	Mineral Oil	mg/l	IS 3025 (Part 39):	<0.01	<0.01	0.5 (NR)
24	Cadmium (as Cd)	mg/l	APHA 23 rd 3125	<0.003	<0.003	0.003 (NR)
25	Total Arsenic (as As)	mg/l	APHA 23 rd 3125	<0.01	<0.01	0.01 (0.05)
26	Copper (as Cu)	mg/l	IS:3025 Part 2:2004	<0.01	<0.01	0.05 (1.5)
27	Lead (as Pb)	mg/l	APHA 23 rd 3125	<0.01	<0.01	0.01 (NR)
28	Manganese (as Mn)	mg/l	APHA 23 rd 3125	<0.01	<0.01	0.1 (0.3)
29	Iron (as Fe)	mg/l	APHA 23 rd 3125	0.04	0.05	0.3(NR)
30	Total Chromium (as Cr)	mg/l	APHA 23 rd 3125	<0.01	<0.01	0.05(NR)
31	Selenium (as Se)	mg/l	IS:15303:2003	<0.01	<0.01	0.01(NR)
32	Zinc (as Zn)	mg/l	IS:3025 Part 2:2004	0.13	0.18	5(15)
33	Aluminum (as Al)	mg/l	IS:3025 (Part 55)	<0.01	0.01	0.03(0.2)
34	Mercury (as Hg)	mg/l	APHA 23 rd 3125	<0.001	<0.001	0.001(NR)
35	Pesticides	µg/l	APHA 23 rd	Absent	Absent	Absent
36	E. Coil	-	IS 15185:: 2016	Absent	Absent	Absent
37	Total Coliforms	MPN/100	IS:15185:2016	Absent	Absent	10

Note: \$ - Limits not specified;

NR - No Relaxation

Limits are shown in IS 10500 are Acceptable limits (Requirement) and in parenthesis are Permissible limit in absence of alternate source.

**Dr. SubbaReddy Mallampati
Dy. Manager-Environment**

ISSUED TO:

M/S.LUCKNOW INTERNATIONAL AIRPORT LIMITED.,
(CHAUDHARY CHARAN SINGH INTERNATIONAL AIRPORT),
AMAUSI, LUCKNOW,
UTTARPRADESH-226009

Report Number : VLL/VLS/22/10012/020
Issued Date : 2022.10.08
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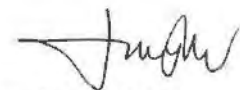
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SAMPLE PARTICULARS : DG NOISE LEVEL MONITORING
Monitored at 1 meter Distance from Acoustic Enclosure

Frequency Of Sampling	: Quarterly Once for Each DG Set
Type of Measurement	: SPOT NOISE
Month of Monitoring	: September 2022
Test Required	: Sound Pressure Levels in Off and On Conditions
Sample collected by Vimta labs ltd	

TEST REPORT

Sr.No	DG Set Code& Capacity	Sampling Date	Location of DG Installed	Sound Pressure Level in d(B)A.	
				Background Noise Level	DG Running Noise Level
01	DG Set-1 750 KVA	20.09.2022	SCADA Power House	60.4	73.6
02	DG Set-2 750 KVA			58.3	72.8
03	DG Set-3 750 KVA			56.9	74.3
04	DG Set-4 750 KVA			59.5	72.9
05	DG Set-5 750 KVA			60.7	73.1
06	DG Set-1 320 KVA	22.09.2022	DGCA office	55.3	72.0
07	DG Set-2 320 KVA			57.1	71.5
08	DG Set-1 200 KVA	26.09.2022	ATC Technical Block	58.3	70.7
09	DG Set-2 200 KVA			56.2	71.3
10	DG Set-1 200 KVA	26.09.2022	MSSR Building	53.2	70.3
11	DG Set-1 320 KVA	24.09.2022	CCR Office	56.8	71.4
12	DG Set-2 320 KVA			55.2	72.2
DG Noise Standard up to 1000 KVA					75.0



Dr. SubbaReddy Mallampati
Dy. Manager-Environment

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AMAUSI, LUCKNOW,
UTTAR PRADESH-226009**

Report Number : VLL/VLS/22/10012/021
Issued Date : 2022.10.08
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SAMPLE PARTICULARS : FLIGHT PATH AREA NOISE LEVEL MONITORING

Frequency Of Sampling : Quarterly Seven days Continuously in each Location
Time Weighted Average : 24 Hours
Method of Analysis : IS:9989
Month of Monitoring : September 2022
Test Required : L-Day and L-Night
Sample collected by Vimta labs ltd

TEST REPORT

Location Code	FPN-1		
Name of the Location	Shyam Nagar		
GPS Coordinates	26° 45'38.05"N 80°52'6.04"E		
Distance from Airport compound wall in meters→	350		
Date of Monitoring	L-Day	L-night	L-equivalent
Day-1: 06 st September 2022	52.6	43.6	49.2
Day-2: 07 th September 2022	53.6	42.5	50.1
Day-3: 08 th September 2022	51.4	43.0	48.5
Day-4: 09 th September 2022	50.7	44.3	47.2
Day-5: 10 th September 2022	53.3	41.5	50.7
Day-6: 11 th September 2022	54.1	42.6	51.3
Day-7: 12 th September 2022	52.7	43.8	49.6

Dr. SubbaReddy Mallampati
Dy. Manager-Environment

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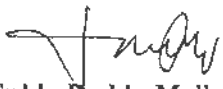
Page 1 of 1

SAMPLE PARTICULARS : FLIGHT PATH AREA NOISE LEVEL MONITORING

Frequency Of Sampling : Quarterly Seven days Continuously in each Location
Time Weighted Average : 24 Hours
Method of Analysis : IS:9989
Month of Monitoring : September 2022
Test Required : L-Day and L-Night
Sample collected by Vimta labs ltd

TEST REPORT

Location Code	FPN-2		
Name of the Location	Omaxe City		
GPS Coordinates	26° 45'39.23"N 80°54'59.80"E		
Distance from Airport compound wall in meters→	85		
Date of Monitoring	Results-d(B)A		
	L-Day	L-night	L-equivalent
Day-1: 13 th September 2022	54.2	43.5	51.3
Day-2: 14 th September 2022	51.4	42.8	47.3
Day-3: 15 th September 2022	53.7	41.5	49.8
Day-4: 16 th September 2022	54.0	44.2	51.4
Day-5: 17 th September 2022	52.5	42.7	49.4
Day-6: 18 th September 2022	53.8	43.1	50.2
Day-7: 19 th September 2022	51.8	42.3	48.6


Dr. SubbaReddy Mallampati
Dy. Manager-Environment

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AMAUSI, LUCKNOW,
UTTAR PRADESH-226009**

Report Number : VLL/VLS/22/10012/023
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P. Order Ref : 5700309099
P.O. Date : 13.05.2022

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SAMPLE PARTICULARS : FLIGHT PATH AREA NOISE LEVEL MONITORING

Frequency Of Sampling : Quarterly Seven days Continuously in each Location
Time Weighted Average : 24 Hours
Method of Analysis : IS:9989
Month of Monitoring : September 2022
Test Required : L-Day and L-Night
Sample collected by Vimta labs ltd

TEST REPORT

Location Code	FPN-3		
Name of the Location	Near Bijnor road		
GPS Coordinates	26° 45'42.09"N 80°55'28.97"E		
Distance from Airport compound wall in meters→	895		
	Results-d(B)A		
Date of Monitoring	L-Day	L-night	L-equivalent
Day-1: 23 rd September 2022	59.4	51.4	56.1
Day-2: 24 th September 2022	57.3	48.6	54.7
Day-3: 25 th September 2022	60.3	49.3	57.4
Day-4: 26 th September 2022	58.3	51.2	55.8
Day-5: 27 th September 2022	55.8	49.3	52.3
Day-6: 28 th September 2022	61.3	50.6	58.5
Day-7: 29 th September 2022	59.8	52.4	56.0

Dr. SubbaReddy Mallampati
Dy. Manager-Environment

ISSUED TO:

M/S.LUCKNOW INTERNATIONAL AIRPORT LIMITED., Report Number : VLL/VLS/22/10012/024
(CHAUDHARY CHARAN SINGH INTERNATIONAL AIRPORT), Issued Date : 2022.10.08
AMAUSI, LUCKNOW, P. Order Ref : 5700309099
UTTAR PRADESH-226009S P. Order Date : 13.05.2022

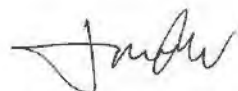
Page 1 of 5

SAMPLE PARTICULARS : DIESEL GENERATOR EMISSION MONITORING
PLACE OF DG SET INSTALLED : SCADA Building
Sampling Date : 2022.09.20
Frequency of Monitoring : Quarterly
Monitoring Month : September 2022
Sample Registration Date : 2022.09.22
Sample Collected by Vimta Labs Ltd.

TEST REPORT

Sr. No.	PARAMETERS	UoM	METHOD OF TESTING	DG1	DG2	DG3	DG4	DG5	* Limits
Physical Parameter									
1	Capacity	KVA	-	750	750	750	750	750	--
2	Stack diameter	m	-	0.8	0.8	0.8	0.8	0.8	--
3	Area of the Stack	m ²	-	0.454	0.454	0.454	0.454	0.454	--
4	Flue gas Temperature	°C	USEPA M-2	128	142	133	129	125	--
5	Velocity of the Flue gas	m/Sec		7.43	6.48	7.14	6.63	5.95	--
6	Volumetric Flow rate	Nm ³ /hr		11513.8	10043.9	11062.5	10273.1	9227.0	--
Chemical Parameters									
7	Sulphur Dioxide @ 15% O2	mg/Nm ³	USEPA CTM 30&34	17.1	16.9	14.8	14.4	12.3	--
8	Carbon Monoxide @ 15% O2	mg/Nm ³		69.51	69.02	72.85	68.90	58.68	≤ 3.5
9	Carbon Monoxide @ 15% O2	gr/kw-hr		1.067	0.924	1.075	0.944	0.722	
10	Oxides of Nitrogen@ 15% O2	mg/Nm ³		142.05	136.69	137.41	162.61	139.40	NOx + HC ≤ 4.0
	Oxides of Nitrogen@ 15% O2	gr/kw-hr		2.181	1.831	2.027	2.227	1.715	
11	Hydro Carbons as CH4@ 15% O2	mg/ Nm ³		12.14	17.02	17.99	18.44	16.65	
	Hydro Carbons as CH4@ 15% O2	gr/kw-hr	0.186	0.228	0.265	0.253	0.205		
12	Particulate Matter@15% O2	mg/ Nm ³	10.31	12.48	10.72	12.03	10.59	≤ 0.2	
	Particulate Matter @ 15% O2	gr/kw-hr	0.158	0.167	0.158	0.165	0.130		

*Limits as CPCB DG Emission Guidelines as Per GSR 771(E)


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ISSUED TO:

M/S.LUCKNOW INTERNATIONAL AIRPORT LIMITED.,
(CHAUDHARY CHARAN SINGH INTERNATIONAL
AIRPORT),
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UTTAR PRADESH-226009S

Report Number : VLL/VLS/22/10012/025
Issued Date : 2022.10.08
P. Order Ref : 5700309099
P. Order Date : 13.05.2022

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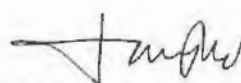
SAMPLE PARTICULARS : DIESEL GENERATOR EMISSION MONITORING
PLACE OF DG SET INSTALLED : DGCA Building

Sampling Date : 2022.09.21
Frequency of Monitoring : Quarterly
Monitoring Month : September 2022
Sample Registration Date : 2022.09.23
Sample Collected by Vimta Labs Ltd.

TEST REPORT

Sr. No.	PARAMETERS	UoM	METHOD OF TESTING	DG1	DG2	* Limits
Physical Parameter						
1	Capacity	KVA	-	320	320	--
2	Stack diameter	m	-	0.45	0.45	--
3	Area of the Stack	m ²	-	0.159	0.159	--
4	Flue gas Temperature	°C	USEPA M-2	119	126	--
5	Velocity of the Flue gas	m/Sec		7.02	6.73	--
6	Volumetric Flow rate	Nm ³ /hr		3810.9	3654.0	--
Chemical Parameters						
7	Sulphur Dioxide @ 15% O2	mg/Nm ³	USEPA CTM30&34	11.4	14.3	--
8	Carbon Monoxide @ 15% O2	mg/Nm ³		43.79	54.43	≤ 3.5
9	Carbon Monoxide @ 15% O2	gr/kw-hr		0.521	0.622	
10	Oxides of Nitrogen@ 15% O2	mg/Nm ³		97.18	108.18	NOx + HC ≤ 4.0
	Oxides of Nitrogen@ 15% O2	gr/kw-hr		1.157	1.235	
11	Hydro Carbons as CH4@ 15% O2	mg/ Nm ³		13.83	14.05	
	Hydro Carbons as CH4@ 15% O2	gr/kw-hr	0.165	0.160		
12	Particulate Matter@15% O2	mg/ Nm ³	USEPA M-5	11.19	11.10	≤ 0.2
	Particulate Matter @ 15% O2	gr/kw-hr		0.133	0.127	

*Limits as CPCB DG Emission Guidelines as Per GSR 771(E)



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Report Number : VLL/VLS/22/10012/026
Issued Date : 2022.10.08
P. Order Ref : 5700309099
P. Order Date : 13.05.2022

Page 3 of 5

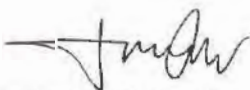
SAMPLE PARTICULARS : DIESEL GENERATOR EMISSION MONITORING
PLACE OF DG SET INSTALLED : ATC Technical Block

Sampling Date : 2022.09.26
Frequency of Monitoring : Quarterly
Monitoring Month : September 2022
Sample Registration Date : 2022.09.28
Sample Collected by Vimta Labs Ltd.

TEST REPORT

Sr. No.	PARAMETERS	UoM	METHOD OF TESTING	DG1	DG2	* Limits
Physical Parameter						
1	Capacity	KVA	-	200	200	--
2	Stack diameter	m	-	0.43	0.43	--
3	Area of the Stack	m ²	-	0.1453	0.1453	--
4	Flue gas Temperature	°C	USEPA M-2	118	121	--
5	Velocity of the Flue gas	m/Sec		6.29	6.68	--
6	Volumetric Flow rate	Nm ³ /hr		3120.9	3315.5	--
Chemical Parameters						
7	Sulphur Dioxide @ 15% O2	mg/Nm ³	USEPA CTM30&34	10.0	9.4	--
8	Carbon Monoxide @ 15% O2	mg/Nm ³		51.34	44.41	≤ 3.5
9	Carbon Monoxide @ 15% O2	gr/kw-hr		0.801	0.736	
10	Oxides of Nitrogen@ 15% O2	mg/Nm ³	USEPA	127.30	93.80	NO _x + HC ≤ 4.0
	Oxides of Nitrogen@ 15% O2	gr/kw-hr	CTM30&34	1.986	1.555	
11	Hydro Carbons as CH ₄ @ 15% O2	mg/ Nm ³	USEPA	17.74	13.48	
	Hydro Carbons as CH ₄ @ 15% O2	gr/kw-hr	CTM30&34	0.277	0.223	
12	Particulate Matter@15% O2	mg/ Nm ³	USEPA M-5	7.69	8.31	≤ 0.2
	Particulate Matter @ 15% O2	gr/kw-hr		0.120	0.138	

*Limits as CPCB DG Emission Guidelines as Per GSR 771(E)


Dr. SubbaReddy Mallampati
Dy.Manager-Environment

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P. Order Date : 13.05.2022

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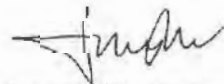
SAMPLE PARTICULARS : DIESEL GENERATOR EMISSION MONITORING
PLACE OF DG SET INSTALLED : CCR office

Sampling Date : 2022.09.24
Frequency of Monitoring : Quarterly
Monitoring Month : September 2022
Sample Registration Date : 2022.09.26
Sample Collected by Vimta Labs Ltd.

TEST REPORT

Sr. No.	PARAMETERS	UoM	METHOD OF TESTING	DG1	DG2	* Limits
Physical Parameter						
1	Capacity	KVA	-	320	320	--
2	Stack diameter	m	-	0.45	0.45	--
3	Area of the Stack	m ²	-	0.16	0.16	--
4	Flue gas Temperature	°C	USEPA M-2	116	123	--
5	Velocity of the Flue gas	m/Sec		7.10	7.27	--
6	Volumetric Flow rate	Nm ³ /hr		3857.1	3951.9	--
Chemical Parameters						
7	Sulphur Dioxide @ 15% O2	mg/Nm ³	USEPA CTM30&34	10.2	8.7	--
8	Carbon Monoxide @ 15% O2	mg/Nm ³		59.16	55.10	≤ 3.5
9	Carbon Monoxide @ 15% O2	gr/kw-hr		0.713	0.680	
10	Oxides of Nitrogen@ 15% O2	mg/Nm ³		127.82	116.98	NO _x + HC ≤ 4.0
	Oxides of Nitrogen@ 15% O2	gr/kw-hr		1.541	1.445	
11	Hydro Carbons as CH ₄ @ 15% O2	mg/ Nm ³		12.97	16.11	
	Hydro Carbons as CH ₄ @ 15% O2	gr/kw-hr	0.156	0.199		
12	Particulate Matter@15% O2	mg/ Nm ³	USEPA M-5	10.63	10.71	≤ 0.2
	Particulate Matter @ 15% O2	gr/kw-hr		0.128	0.132	

*Limits as CPCB DG Emission Guidelines as Per GSR 771(E)


Dr. SubbaReddy Mallampati
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UTTAR PRADESH-226009S

Report Number : VLL/VLS/22/10012/028
Issued Date : 2022.10.08
P. Order Ref : 5700309099
P. Order Date : 13.05.2022

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SAMPLE PARTICULARS : DIESEL GENERATOR EMISSION MONITORING
PLACE OF DG SET INSTALLED : MSSR Building

Sampling Date : 2022.09.26
Frequency of Monitoring : Quarterly
Monitoring Month : September 2022
Sample Registration Date : 2022.09.28
Sample Collected by Vimta Labs Ltd.

TEST REPORT

Sr. No.	PARAMETERS	UoM	METHOD OF TESTING	DG1	* Limits
Physical Parameter					
1	Capacity	KVA	-	200	--
2	Stack diameter	m	-	0.55	--
3	Area of the Stack	m ²	-	0.24	--
4	Flue gas Temperature	°C	USEPA M-2	115	--
5	Velocity of the Flue gas	m/Sec		6.75	--
6	Volumetric Flow rate	Nm ³ /hr		5478.0	--
Chemical Parameters					
7	Sulphur Dioxide @ 15% O2	mg/Nm ³	USEPA CTM30&34	8.7	--
8	Carbon Monoxide @ 15% O2	mg/Nm ³		40.37	≤ 3.5
9	Carbon Monoxide @ 15% O2	gr/kw-hr		1.106	
10	Oxides of Nitrogen@ 15% O2	mg/Nm ³		77.80	NOx + HC ≤ 4.0
	Oxides of Nitrogen@ 15% O2	gr/kw-hr		2.131	
11	Hydro Carbons as CH4@ 15% O2	mg/ Nm ³		10.87	
	Hydro Carbons as CH4@ 15% O2	gr/kw-hr	0.298		
12	Particulate Matter@15% O2	mg/ Nm ³	USEPA M-5	5.34	≤ 0.2
	Particulate Matter @ 15% O2	gr/kw-hr		0.146	

*Limits as CPCB DG Emission Guidelines as Per GSR 771(E)

Dr. SubbaReddy Mallampati
Dy. Manager-Environment

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UTTARPRADESH-226009**

Report Number : VLL/VLS/21/10012/029
Issued Date : 2022.10.08
P. Order Ref : 5700309099
P.O. Date : 13.05.2022

SAMPLE PARTICULARS : Soil Quality

Frequency Of Sampling	: One Grab sample in a Six Months
Month of Sampling	: September 2022
Quantity Collected for Analysis	: 1Kg
Type of Container used for sampling	: Leak Proof ZIP Lock Cover
Test Required	: As per ML Jackson Book
Sample Collected On	: 15.09.2022
Analysis Start Date	: 15.09.2022
Analysis Completion Date	: 26.09.2022
Sample collected by Vimta Labs Ltd.,	

TEST REPORT

Sr.No	Parameters	UoM	Near Terminal-1	Near Terminal-2	SCADA Building
1	Texture	--			
a	Sand	%	51	48	47
b	Silt	%	12	11	14
c	Clay	%	37	41	39
2	Textural Class	--	sandy clay	sandy clay	sandy clay
3	Bulk Density	g/cc	1.32	1.27	1.21
4	pH (1:5 Aq.Extraction)	--	7.43	7.28	7.56
5	Conductivity (1:5 Aq.Extraction)	µS/cm	238	259	197
6	Exchangeable Calcium as Ca	mg/kg	3467	3981	2874
7	Exchangeable Magnesium as Mg	mg/kg	989	1124	876
8	Exchangeable Sodium as Na	mg/kg	97.6	82.6	78.7
9	Sodium Absorption Ratio (SAR)	----	0.17	0.11	0.15
10	Available Nitrogen as N	Kg/hac	61.8	66.6	50.3
11	Available Phosphorous as P	Kg/hac	36.3	51.9	42.6
12	Available Potassium as K	Kg/hac	146.7	121.7	135.6
13	Organic Carbon	%	0.28	0.31	0.25
14	Organic Matter	%	0.48	0.54	0.43
15	Water Soluble Chlorides as Cl	mg/kg	78.0	56.7	51.4



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Group Leader-Environment

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P.O. Date : 13.05.2022


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SAMPLE PARTICULARS : Soil Quality

Frequency Of Sampling : One Grab sample in a Six Months
Month of Sampling : **September 2022**
Quantity Collected for Analysis : 1Kg
Type of Container used for sampling : Leak Proof ZIP Lock Cover
Test Required : As per ML Jackson Book
Sample Collected On : 15.09.2022
Analysis Start Date : 17.09.2022
Analysis Completion Date : 26.09.2022
Sample collected by Vimta Labs Ltd.,

TEST REPORT

Sr.No	Parameters	UoM	Near Terminal-1	Near Terminal-2	SCADA Building
16	Water Soluble Sulphates as SO ₄	mg/kg	44.0	31.8	35.6
17	Aluminum as Al	%	0.98	1.23	1.45
18	Total Iron as Fe	%	1.74	2.54	1.96
19	Manganese as Mn	mg/kg	315	284	426
20	Boron as B	mg/kg	46.8	53.2	49.3
21	Zinc as Zn	mg/kg	59.2	46.2	52.5
22	Total Chromium as Cr	mg/kg	18.6	21.8	16.7
23	Lead as Pb	mg/kg	2.8	3.4	1.9
24	Nickel as Ni	mg/kg	5.6	4.9	3.8
25	Arsenic as As	mg/kg	<0.1	<0.1	<0.1
26	Mercury as Hg	mg/kg	<0.1	<0.1	<0.1
27	Cadmium as Cd	mg/kg	<0.1	<0.1	<0.1
28	Exchangeable Sodium	meq/100g	0.42	0.36	0.51
29	Exchangeable Potassium	meq/100g	0.18	0.16	0.36
30	Exchangeable Calcium	meq/100g	17.34	19.91	15.24
31	Exchangeable Magnesium	meq/100g	8.24	9.37	7.30
32	Cation Exchange Capacity	meq/100g	26.18	29.79	23.41


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P. Order Ref : 5700309099
P.O. Date : 13.05.2022

Page 1 of 2

SAMPLE PARTICULARS : Soil Quality

Frequency Of Sampling : One Grab sample in a Six Months
Month of Sampling : **September 2022**
Quantity Collected for Analysis : 1Kg
Type of Container used for sampling : Leak Proof ZIP Lock Cover
Test Required : As per ML Jackson Book
Sample Collected On : 15.09.2022
Analysis Start Date : 17.09.2022
Analysis Completion Date : 26.09.2022
Sample collected by Vimta Labs Ltd.,

TEST REPORT

Sr.No	Parameters	UoM	Near STP Plant	Near Project Office
1	Texture	--		
a	Sand	%	54	43
b	Silt	%	18	16
c	Clay	%	28	41
2	Textural Class	--	sandy clay	sandy clay
3	Bulk Density	g/cc	1.34	1.29
4	pH (1:5 Aq.Extraction)	--	7.31	7.44
5	Conductivity (1:5 Aq.Extraction)	µS/cm	289	262
6	Exchangeable Calcium as Ca	mg/kg	3586	2492
7	Exchangeable Magnesium as Mg	mg/kg	1053	947
8	Exchangeable Sodium as Na	mg/kg	84.8	57.5
9	Sodium Absorption Ratio (SAR)	----	0.14	0.12
10	Available Nitrogen as N	Kg/hac	33.1	51.5
11	Available Phosphorous as P	Kg/hac	67.9	36.4
12	Available Potassium as K	Kg/hac	162.4	115.6
13	Organic Carbon	%	0.15	0.24
14	Organic Matter	%	0.26	0.41
15	Water Soluble Chlorides as Cl	mg/kg	63.8	42.5

**Dr. SubbaReddy Mallampati
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Issued Date : 2022.10.08
P. Order Ref : 5700309099
P.O. Date : 13.05.2022

SAMPLE PARTICULARS : Soil Quality

Frequency Of Sampling	: One Grab sample in a Six Months
Month of Sampling	: September 2022
Quantity Collected for Analysis	: 1Kg
Type of Container used for sampling	: Leak Proof ZIP Lock Cover
Test Required	: As per ML Jackson Book
Sample Collected On	: 15.09.2022
Analysis Start Date	: 17.09.2022
Analysis Completion Date	: 26.09.2022
Sample collected by Vimta Labs Ltd.,	

TEST REPORT

Sr.No	Parameters	UoM	Near STP Plant	Near Project Office
16	Water Soluble Sulphates as SO4	mg/kg	46.0	31.1
17	Aluminum as Al	%	1.67	1.05
18	Total Iron as Fe	%	2.38	1.29
19	Manganese as Mn	mg/kg	367	294
20	Boron as B	mg/kg	38.9	41.5
21	Zinc as Zn	mg/kg	61.7	39.6
22	Total Chromium as Cr	mg/kg	23.8	13.2
23	Lead as Pb	mg/kg	2.6	1.02
24	Nickel as Ni	mg/kg	5.2	4.3
25	Arsenic as As	mg/kg	<0.1	<0.1
26	Mercury as Hg	mg/kg	<0.1	<0.1
27	Cadmium as Cd	mg/kg	<0.1	<0.1
28	Exchangeable Sodium	meq/100g	0.37	0.25
29	Exchangeable Potassium	meq/100g	0.20	0.15
30	Exchangeable Calcium	meq/100g	17.93	12.46
31	Exchangeable Magnesium	meq/100g	8.78	7.89
32	Cation Exchange Capacity	meq/100g	27.27	20.75

**Dr. SubbaReddy Mallampati
Group Leader-Environment**

Vimta Labs Limited

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UTTARPRADESH-226009**

Report Number : VLL/VLS/22/10012/031
Issued Date : 2022.10.08
P. Order Ref : 5700309099
P.O. Date : 13.05.2022

Page 1 of 1

SAMPLE PARTICULARS : GROUND WATER LEVELS MONITORING

Frequency Of Sampling : Half yearly Once in Each Location
Time Weighted Average : One Time
Method of Testing : Water Level Indicator
Month of Monitoring : **September 2022**
Test Required : Water Level
Sample collected by Vimta labs ltd

TEST REPORT

Sr.No	Location Code	Sampling Date	Name of the Location	Ground Water Levels (meters)	Latitude	Longitude
1	GW1	15.09.2022	Near Pump House, Terminal-2	22.50	26.765815	80.886949
2	GW2	15.09.2022	Residential Colony - 1	24.70	26.774574	80.884301
3	GW3	15.09.2022	Residential Colony - 2	23.23	26.770774	80.886558
4	GW4	15.09.2022	Near DGCA	22.15	26.768952	80.88333
5	GW5	16.09.2022	Near CISF barracks	23.85	26.771945	80.878733
6	GW6	16.09.2022	Near CCR Room Terminal -1	21.60	26.763973	80.882658
7	GW7	16.09.2022	Near Auto Parking area	20.75	26.764779	80.885068
8	GW8	16.09.2022	Near Community Center	21.20	26.768433	80.884975

Dr. SubbaReddy Mallampati
Dy. Manager-Environment

ANNEXURE - 3



Lucknow International Airport Limited

From : April'2022

To : Sept'2022

Annexure 3 – List of plant Species

S.No.	Name of Species
1	Bismarkhia plam
2	Ficus black
3	Ficus golden
4	Furcuria
5	Cycus
6	chamaedorea palm
7	Ficus starlight
8	Nolina palm
9	Plumeria alba
10	Kadamba
11	Cassia
12	Foxtail palm
13	Washingtonia
14	plumeria Dwarf
15	putranjiva
16	Neem
17	Bargad
18	Pipal
19	mango
20	Royal Palm
21	Areca Palm
22	Thevetia
23	Phonex
24	Chrimas tree
25	Raphis
26	Alistonia
27	Juniper
28	Casurina TPRY
29	Bottle brush
30	Equaliptus
31	Ficus Nitida
32	Ficus Panda
33	Spathodia
34	Amaltas
35	Tabubia
36	Ashoka
37	Fostail palm



Lucknow International Airport Limited

From : April'2022

To : Sept'2022

Annexure 3 – Photographs of Green Cover



ANNEXURE - 4

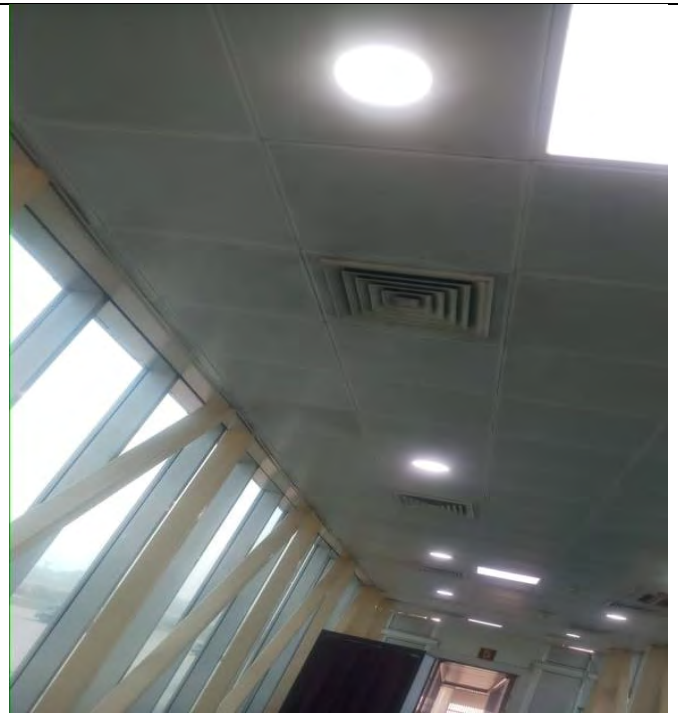
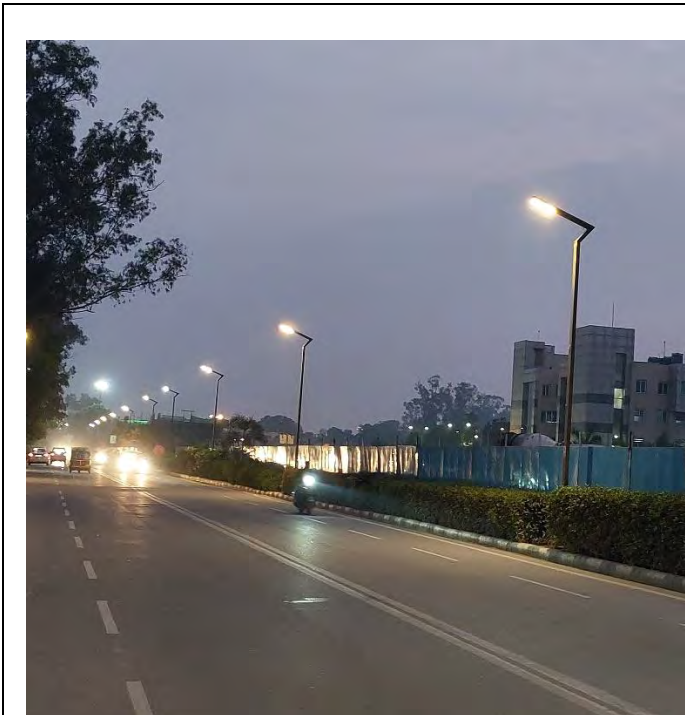


Lucknow International Airport Limited

From : April'2022

To : Sept'2022

Annexure 4 – LED light installation and Solar PV installation Photographs



ANNEXURE - 5

Vikas .

From: Vikas .
Sent: Tuesday, May 31, 2022 7:01 PM
To: rocz.lko-mef@nic.in
Cc: 'mefcc.ia3@gmail.com'; 'monitoring-ec@nic.in'; ms@uppcb.in; rolucknow@uppcb.in; rocz.lko-mef@nic.in; cpcb.lucknow@gmail.com; Shalin Shah; Sunil Parate; Kriti Jain; Azharuddin Kazi; Balvir Singh Bhatia; doeuplko@yahoo.com
Subject: Half yearly EC Compliance Oct'2021 to March'2022 LIAL
Attachments: LIAL Compliance October 2021 to March 2022.pdf

Dear Sir/Ma'am,

Lucknow International Airport Limited formally known as Adani Lucknow International Airport Ltd. is hereby submitting the Half Yearly compliance report for the period of October-2021 to March-2022.

Regards,



Vikas Verma
Lead- Environment & Sustainability
Lucknow International Airport Ltd.

Call : +91 8769383747

Vikas.11@adani.com | www.adani.com |

Office : 1st Floor, Old APD Building, Behind Terminal 1, CCS International Airport, Lucknow- 226009, Uttar Pradesh, India

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ANNEXURE – 6

Ref No. LIAL/CAO/ES/22-23/1030

Date:29.09.2022

To,

Member Secretary,
Uttar Pollution Control Board
Building.No. TC-12V Vibhuti Khand,
Gomti Nagar Lucknow-226 010

Sub: Environmental Statement for the financial year ending 31st March 2022 for "Chaudhary Charan Singh International Airport" Lucknow, **by M/s Lucknow International Airport Limited (LIAL)**

Ref:

- i. **Consolidated Consent to Operate and Authorization (CCA) vide letter no. 155571/UPPCB/ Lucknow (UPPCBRO)/ CTO/both/ LUCKNOW/ 2022 Dated 01/07/2022.**

Dear Sir,

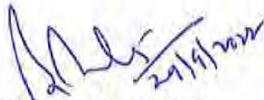
With reference to the above mentioned subject and reference, please find enclosed Environmental Statement in Form V prescribed under Rule 14 of the Environment (Protection) Rules 1986, for Chaudhary Charan Singh International (CCSI) Airport, Lucknow for the financial year ending 31st March 2022 for the period of April 2021-March 2022.

Kindly consider above submission and acknowledge.

Thank you,

Yours Sincerely,

For, M/s Lucknow International Airport Limited


29/09/2022

Balvir Singh Bhatia
Chief Airport Officer
CCS International Airport


30/09/22

डाक प्राप्ति रसीद
प्राप्ति दिनांक: 30.09.22
प्रारम्भिक नं. डाक: 16
उपरोक्त पत्र/पत्रिका का नं. 10, डाककेंद्र

Encl: As above.

Copy to: Regional Officer, Regional Office Lucknow - Picup Bhawan B-Block, 4th Floor, Vibhuti Khand, Gomti Nagar, Lucknow-226010

Lucknow International Airport Limited
First Floor Terminal-1,
CCS International Airport Lucknow,
Lucknow-226009
Uttar Pradesh
CIN: U63030GJ2019PLC109814

Tel +91 79 2656 5555
Fax +91 79 2555 5500
Email: info@adani.com
Website: www.adani.com

Environment Statement for 2021-22 for M/s. Lucknow International Airport Limited

FORM V
(See Rule 14)

Environmental Statement for the period from 1st April 2021 to 31st March 2022

PART - A

- (i) Name and address of the Owner/ Occupier of the Industry Operation or Process : Mr. Balvir Singh Bhatia
Chief Airport Officer
Lucknow International Airport Ltd. (LIAL)
First Floor Terminal 1, CCS International Airport
Lucknow, Lucknow-226009, Uttar Pradesh, India
- (ii) Industry Category : Red-Large
Primary (STC Code) : NA
Secondary (STC Code) : NA
- (iii) Production Capacity : No production as Airport is Service Industry
- (iv) Year of Establishment : Commercial Date of Operation (COD):
2nd Nov 2020
- (v) Date of last Environment Statement submitted : 23rd September 2021

PART - B

Water and Raw Material Consumption

(i) Water Consumption (in m³/day)

Water Consumption	604
Process	Nil
Domestic & cooling	604

1.1/2022

Environment Statement for 2021-22 for M/s. Lucknow International Airport Limited

	Parameters	Avg. Mass Kg/Day	Parameters	Avg.	
(b) Air	Particulate Matter (PM)	--	Particulate Matter (mg/Nm ³)	--	As a part of Environment Monitoring programme, DG set flue gas monitoring is being carried out quarterly. The Analysis of the D.G Set Stack Monitoring report attached as Annexure-6 .
	Sulphur Dioxide (SO ₂)	--	Sulphur Dioxide (PPM)	--	
	Nitrogen Oxide (NO _x)	--	Nitrogen Oxide (NO _x) (PPM)	--	

PART - D

Hazardous Wastes

(As specified under Hazardous & Other waste Wastes Management 2016)

Hazardous Wastes	Total Quantity (MT)	
	During the current financial year (2020-21)	During the current financial year (2021-22)
(a) From Process	NA	NA*
(b) From Pollution Control facilities	Not applicable	Not applicable

*Chaudhary Charan Singh International Airport is a service industry does not undergo any manufacturing or production. There is no process hazardous waste generation & disposal. However, hazardous waste generated through D.G. Set and equipment maintenance as provided in **Annexure-3**.

Environment Statement for 2021-22 for M/s. Lucknow International Airport Limited

PART - F

Please specify the characterization (in terms of Composition and quantum) of Hazardous as well as solid wastes and indicate disposal practice adopted for both these categories of wastes:

- As a part of LIAL operation, an effective Solid Waste Management plan has been implemented at site, which includes:
 - ✓ Collection & Segregation of waste from the source,
 - ✓ Providing separate waste bins (for dry & wet waste) at all the locations including Airside , Landside & within the Terminals
 - ✓ The segregated waste are collected and from there, shifted to Waste yard situated at backend of the Airport.
 - ✓ COVID-waste is being proper managed inline to the regulatory requirements.
 - ✓ All the waste after proper segregation is being sent to the recognized agency M/s Sharda Enterprises for further handling.
 - ✓ Hazardous Waste, generated at LIAL are being managed inline to the Hazardous Waste Management Rules 2016, amended till date.
 - ✓ Battery Waste, generated at LIAL are managed inline to the Battery Waste Management Rules 2010, amended till date
 - ✓ E-Waste, generated at LIAL are being managed inline to the E-Waste Management Rules 2016, amended till date
- As part of way forward Adani Lucknow International Airport Ltd has their future plans for managing it's wastes under 5 R principal and step ahead with a vision of Zero Waste to Landfill.



Environment Statement for 2021-22 for M/s. Lucknow International Airport Limited



Air Management:

- Ambient Air Quality Monitoring is being carried out by MoEF&CC & NABL accredited laboratory and all the results are observed to be within Stipulated Standards
- Environment Monitoring for D.G Stack Flue Gas Emissions will be carried out by MoEF&CC and NABL accredited laboratory.
- Green cover of ~6.37 Ha has been developed

Soil Management

- Environment Monitoring for Soil Analysis is being carried out by MoEF&CC and NABL accredited laboratory and all the results are under the norms inline to stipulated standards.

PART - H

Additional measures /investment/ proposal for environmental protection including abatement of pollution, prevention of pollution.

- LIAL has developed an adequate Green Belt Area and is properly maintained by the Horticulture Team at the Airport.



Environment Statement for 2021-22 for M/s. Lucknow International Airport Limited

World Water Day:



Home National Delhi UP Haryana Uttarakhand



जल ही जीवन...

विश्व जल दिवस के अवसर पर मंगलवार को चौधरी चरण सिंह अंतरराष्ट्रीय एयरपोर्ट पर कई जागरूकता कार्यक्रम आयोजित किये गए। कार्टून चरित्र मॉटू ने कारियों को जल संरक्षण का संदेश दिया। लखनऊ इंटरनेशनल एयरपोर्ट लि. की ओर से 25 मार्च तक कई आयोजन होंगे • सीजनल • एयरपोर्ट लिमिटेड



Environment Statement for 2021-22 for M/s. Lucknow International Airport Limited

Recycle plastic: Doraemon message to kids at airport

TIMES NEWS NETWORK

Lucknow: The Chaudhary Charan Singh International (CCSI) Airport at Lucknow is conducting a campaign with the help of cartoon character Doraemon wherein volunteers visited adjoining areas and shared the impact of single-use plastic and its recycling with children and adults on Wednesday.

At the airport, products made from recycled plastic were displayed and kids were educated about the benefits of recycling plastic.

CCSI Airport spokesperson said that as part of the plastic-free airport, an awareness campaign has



TELLING IT THE TOON WAY

been initiated from March 23-25 in which employees and staff working at the airport will actively participate. Officials said that the campaign was in line with Prime Minister Narendra Modi's call to phase out single-use plastic by 2022 and the Plastic Waste Management Amendment Rules, 2021.

प्लास्टिक का उपयोग कम करने के लिए किया जागरूक

जास, लखनऊ : सब्जी और किराना का सामान खरीदने सहित कई कामों में इस्तेमाल होने वाली प्लास्टिक से पर्यावरण को होने वाले नुकसान के बारे में बुधवार को लखनऊ एयरपोर्ट के आसपास के लोगों को जागरूक किया गया। लखनऊ इंटरनेशनल एयरपोर्ट लिमिटेड की ओर से आसपास के क्षेत्रों में कार्टून चरित्र डोरिगोन के जरिये लोगों को प्लास्टिक के कचरे से होने वाली हानियों की जानकारी दी गई। चौधरी चरण सिंह अंतरराष्ट्रीय एयरपोर्ट के प्रवक्ता ने कहा कि प्लास्टिक मुक्त हवाई अड्डे के तहत 25 मार्च तक



प्लास्टिक के इस्तेमाल पर अंकुश लगाने के लिए एयरपोर्ट पर चला जागरूकता अभियान • स्रो : एयरपोर्ट प्रबंधन
लगातार जागरूकता अभियान चलाया जाएगा।

Date : 29.09.2022

Balvir Singh Bhatia
29/09/2022

(Signature of a person carrying out an industry, operation or process)

Balvir Singh Bhatia

Designation : **Chief Airport Officer**

Address: **Lucknow International Airport Ltd.**
First Floor Terminal 1, CCS International Airport
Lucknow Lucknow-226009 Uttar Pradesh, India

Environment Statement for 2021-22 for M/s. Lucknow International Airport Limited

Annexure-3

Hazardous Waste Details

Hazardous Waste	Unit	Quantity
5.1 Used of Spent oil	Liters	1020
3.3 Sludge and filters contaminated with oil	Kg	104
33.2 Contaminated cotton rage or other cleaning material	kg	11
33.1 Empty Barrels/ containers/ liners contaminated with hazardous chemicals/ waste	Nos	9

ANNEXURE - 4

Cost of Environmental Protection Measures of LIAL, Lucknow April 2021 - March 2022

Sr. No.	Activity	Cost incurred (INR in Lacs)
1.	Legal & Statutory Expenses	8.3
2.	Environmental Monitoring Services	10.78
3.	Hazardous / Non Hazardous Waste Management & Disposal	0.22
4.	Others- Flowmeter, Piezometer and display board	12.24
5.	Other Horticulture Expenses	103.5
6.	O&M of Sewage Treatment Plant)	12.9
Total		147.94

ANNEXURE - 5

Vimta Labs Limited

Registered Office
142, IDA Phase II, Cherlapally
Hyderabad-500 051, Telangana, India
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F : +91 40 2726 3657



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ISSUED TO:

M/S.ADANI LUCKNOW INTERNATIONAL AIRPORT
LIMITED.,
(CHAUDHARY CHARAN SINGH INTERNATIONAL AIRPORT),
AMAUSI, LUCKNOW,
UTTARPRADESH-226009

Report Number : VLL/VLS/21/01164/006
Issued Date : 2021.05.04
P. Order Ref : 5700291869
P.O. Date : 13.10.2020

Page 1 of 1

SAMPLE PARTICULARS : STP OUTLET WASTEWATER

Frequency Of Sampling : One Grab sample in a Month
Month of Sampling : APRIL 2021
Quantity Collected for Analysis : 5 Liter
Type of Container used for sampling : HDPE Plastic Container-3 L
Amberlite Glass Container-2 L
Test Required : pH; Total Suspended Solids; Total Dissolved Solids; Total Nitrogen; Chemical
Oxygen Demand; Biological Oxygen Demand; Oil and Grease; and Ammonical
Nitrogen
Sample Collected On : 16.04.2021
Analysis Start Date : 19.04.2021
Analysis Completion Date : 26.04.2021
Sample collected by Vimta Labs Ltd.,

TEST REPORT

Sr.No	Parameters	Method Adopted	UoM	Results	CPCB Standard
1	pH	IS:3025 P-11	--	7.3	5.5 - 9.0
2	Total Suspended Solids	IS:3025 P-16	mg/L	53	100
3	Total Dissolved Solids	IS:3025 P-16	mg/L	452	2100
4	Total Nitrogen	APHA 4500-B	mg/L	3.4	10
5	Chemical Oxygen Demand	APHA 5220B	mg/L	108	250
6	Biological Oxygen Demand at 27°C, 3 days	IS:3025 P-44	mg/L	19	30
7	Oil and Grease	APHA 5520-C	mg/L	<1.0	10
8	Ammonical Nitrogen	APHA 4500-F	mg/L	<0.1	5

Dr. SubbaReddy Mallampati
Group Leader-Environment

ISSUED TO:

**M/S.ADANI LUCKNOW INTERNATIONAL AIRPORT
LIMITED.,
(CHAUDHARY CHARAN SINGH INTERNATIONAL AIRPORT),
AMAUSI, LUCKNOW,
UTTARPRADESH-226009**

Report Number : VLL/VLS/21/02413/008
Issued Date : 2021.07.05
P. Order Ref : 5700291869
P.O. Date : 13.10.2020

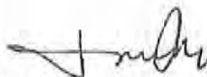
Page 1 of 1

SAMPLE PARTICULARS : STP OUTLET WASTEWATER

Frequency Of Sampling : One Grab sample in a Month
Month of Sampling : **JUNE 2021**
Quantity Collected for Analysis : 5 Liter
Type of Container used for sampling : HDPE Plastic Container-3 L
Amberlite Glass Container-2 L
Test Required : pH; Total Suspended Solids; Total Dissolved Solids; Total Nitrogen; Chemical
Oxygen Demand; Biological Oxygen Demand; Oil and Grease; and Ammonical
Nitrogen
Sample Collected On : 02.06.2021
Analysis Start Date : 04.06.2021
Analysis Completion Date : 11.06.2021
Sample collected by Vimta Labs Ltd.,

TEST REPORT

Sr.No	Parameters	Method Adopted	UoM	Results	CPCB Standard
1	pH	IS:3025 P-11	--	7.3	5.5 - 9.0
2	Total Suspended Solids	IS:3025 P-16	mg/L	50	100
3	Total Dissolved Solids	IS:3025 P-16	mg/L	452	2100
4	Total Nitrogen	APHA 4500-B	mg/L	3.2	10
5	Chemical Oxygen Demand	APHA 5220B	mg/L	56	250
6	Biological Oxygen Demand at 27°C, 3 days	IS:3025 P-44	mg/L	13	30
7	Oil and Grease	APHA 5520-C	mg/L	<1.0	10
8	Ammonical Nitrogen	APHA 4500-F	mg/L	<0.1	5


Dr. SubbaReddy Mallampati
Group Leader-Environment

Vimta Labs Limited

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F : +91 40 2726 3657

**ISSUED TO:**

**M/S.ADANI LUCKNOW INTERNATIONAL AIRPORT LIMITED.,
(CHAUDHARY CHARAN SINGH INTERNATIONAL AIRPORT),AMAUSI, LUCKNOW,
UTTARPRADESH-226009**

Report Number : VLL/VLS/21/06576/006
Issued Date : 2021.09.06
P. Order Ref : 5700291869
P.O. Date : 13.10.2020

Page 1 of 1

SAMPLE PARTICULARS : STP OUTLET WASTEWATER

Frequency Of Sampling : One Grab sample in a Month
Month of Sampling : **AUGUST 2021**
Quantity Collected for Analysis : 5 Liter
Type of Container used for sampling : HDPE Plastic Container-3 L
Amberlite Glass Container-2 L
Test Required : pH; Total Suspended Solids; Total Dissolved Solids; Total Nitrogen; Chemical Oxygen Demand; Biological Oxygen Demand; Oil and Grease; and Ammonical Nitrogen
Sample Collected On : 16.08.2021
Analysis Start Date : 18.08.2021
Analysis Completion Date : 24.08.2021
Sample collected by Vimta Labs Ltd.,

TEST REPORT

Sr.No	Parameters	Method Adopted	UoM	Results	CPCB Standard	Limits as per G.S.R. 1265(E)
1	pH	IS:3025 P-11	--	7.2	5.5 - 9.0	6.5 - 9.0
2	Total Suspended Solids	IS:3025 P-16	mg/L	43	< 100	< 50
3	Total Dissolved Solids	IS:3025 P-16	mg/L	473	< 2100	--
4	Total Nitrogen	APHA 4500-B	mg/L	3.7	< 10	--
5	Chemical Oxygen Demand	APHA 5220B	mg/L	35	< 250	--
6	Biological Oxygen Demand at 27°C, 3 days	IS:3025 P-44	mg/L	10	< 30	< 20
7	Oil and Grease	APHA 5520-C	mg/L	<1.0	< 10	--
8	Ammonical Nitrogen	APHA 4500-F	mg/L	<0.1	< 5	--

Dr. SubbaReddy Mallampati
Group Leader-Environment

Vimta Labs Limited

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Report Number : VLL/VLS/21/09591/006
Issued Date : 2021.11.05
P. Order Ref : 5700291869
P.O. Date : 13.10.2020

Page 1 of 1

SAMPLE PARTICULARS : STP OUTLET WASTEWATER

Frequency Of Sampling	: One Grab sample in a Month
Month of Sampling	: OCTOBER 2021
Quantity Collected for Analysis	: 5 Liter
Type of Container used for sampling	: HDPE Plastic Container-3 L Amberlite Glass Container-2 L
Test Required	: pH; Total Suspended Solids; Total Dissolved Solids; Total Nitrogen; Chemical Oxygen Demand; Biological Oxygen Demand; Oil and Grease; and Ammonical Nitrogen
Sample Collected On	: 11.10.2021
Analysis Start Date	: 13.10.2021
Analysis Completion Date	: 22.10.2021
Sample collected by Vimta Labs Ltd.,	

TEST REPORT

Sr.No	Parameters	Method Adopted	UoM	Results	CPCB Standard	Limits as per G.S.R. 1265(E)
1	pH	IS:3025 P-11	--	7.45	5.5 - 9.0	6.5 - 9.0
2	Total Suspended Solids	IS:3025 P-16	mg/L	42	100	< 50
3	Total Dissolved Solids	IS:3025 P-16	mg/L	482	2100	--
4	Total Nitrogen	APHA 4500-B	mg/L	3.1	10	--
5	Chemical Oxygen Demand	APHA 5220B	mg/L	33	250	--
6	Biological Oxygen Demand at 27°C, 3 days	IS:3025 P-44	mg/L	10	30	< 20
7	Oil and Grease	APHA 5520-C	mg/L	<1.0	10	--
8	Ammonical Nitrogen	APHA 4500-F	mg/L	<0.1	5	--

Dr. SubbaReddyMallampati
Group Leader-Environment

Vimta Labs Limited

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**ISSUED TO:**

**M/S. LUCKNOW INTERNATIONAL AIRPORT LIMITED.,
(CHAUDHARY CHARAN SINGH INTERNATIONAL
AIRPORT), AMAUSI, LUCKNOW,
UTTAR PRADESH-226009**

Report Number : VLL/VLS/21/12779/008
Issued Date : 2022.01.08
P. Order Ref : 5700301505
P.O. Date : 20.10.2021

Page 1 of 1

SAMPLE PARTICULARS : STP WATER

Frequency Of Sampling	: One Grab sample in a Month
Month of Sampling	: DECEMBER 2021
Quantity Collected for Analysis	: 5 Liter
Type of Container used for sampling	: HDPE Plastic Container-3 L Amberlite Glass Container-2 L
Test Required	: pH; Total Suspended Solids; Total Dissolved Solids; Total Nitrogen; Chemical Oxygen Demand; Biological Oxygen Demand; Oil and Grease; and Ammonical Nitrogen, Residual Chlorine and Fecal Coliform.
Sample Collected On	: 08.12.2021
Analysis Start Date	: 10.12.2021
Analysis Completion Date	: 22.12.2021
Sample collected by	: Vimta Labs Ltd.,

TEST REPORT

Sr.No	Parameters	Method Adopted	UoM	STP Inlet Water	STP Outlet Water	CPCB Standard	Limits as per G.S.R. 1265(E)
1	pH	IS:3025 P-11	--	8.2	7.94	5.5 - 9.0	6.5 - 9.0
2	Total Suspended Solids	IS:3025 P-16	mg/L	116	43	100	< 50
3	Total Dissolved Solids	IS:3025 P-16	mg/L	915	640	2100	--
4	Total Nitrogen	APHA 4500-B	mg/L	16.2	4.8	10	--
5	Chemical Oxygen Demand	APHA 5220B	mg/L	280	58	250	--
6	Biological Oxygen Demand at 27°C, 3 days	IS:3025 P-44	mg/L	71	15	30	< 20
7	Oil and Grease	APHA 5520-C	mg/L	5.9	<1.0	10	--
8	Ammonical Nitrogen	APHA 4500-F	mg/L	3.4	<0.1	5	--
9	Residual Chlorine	IS:3025 P-26	mg/L	<0.1	<0.1	-	-
10	Fecal Coliform	EPA Method 1681: 2006	MPN/100ml	280	<1.8	<100	<1000

**Dr. Subba Reddy Mallampati
Group Leader-Environment**

Vimta Labs Limited

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Hyderabad-500 051, Telangana, India
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UTTAR PRADESH-226009**

Report Number : VLL/VLS/21/15589/001
Issued Date : 2022.03.05
P. Order Ref : 5700301505
P.O. Date : 20.10.2021

Page 1 of 1

SAMPLE PARTICULARS : STP WATER

Frequency Of Sampling	: One Grab sample in a Month
Month of Sampling	: February 2022
Quantity Collected for Analysis	: 5 Liter
Type of Container used for sampling	: HDPE Plastic Container-3 L Amberlite Glass Container-2 L
Test Required	: pH; Total Suspended Solids; Total Dissolved Solids; Total Nitrogen; Chemical Oxygen Demand; Biological Oxygen Demand; Oil and Grease; and Ammonical Nitrogen, Residual Chlorine and Fecal Coliform.
Sample Collected On	: 08.02.2022
Analysis Start Date	: 10.02.2022
Analysis Completion Date	: 18.02.2022
Sample collected by	: Vimta Labs Ltd.,

TEST REPORT

Sr.No	Parameters	Method Adopted	UoM	STP Inlet Water	STP Outlet Water	CPCB Standard	Limits as per G.S.R. 1265(E)
1	pH	IS:3025 P-11	--	7.16	7.46	5.5 - 9.0	6.5 - 9.0
2	Total Suspended Solids	IS:3025 P-17	mg/L	290	46	100	< 50
3	Total Dissolved Solids	IS:3025 P-16	mg/L	422	324	2100	--
4	Total Nitrogen	APHA 4500-B	mg/L	14.7	3.3	10	--
5	Chemical Oxygen Demand	APHA 5220B	mg/L	480	70	250	--
6	Biological Oxygen Demand at 27°C, 3 days	IS:3025 P-44	mg/L	95	14	30	< 20
7	Oil and Grease	APHA 5520-C	mg/L	4.4	<1.0	10	--
8	Ammonical Nitrogen	APHA 4500-F	mg/L	3.5	<0.1	5	--
9	Residual Chlorine	IS:3025 P-26	mg/L	<0.1	<0.1	-	-
10	Fecal Coliform	EPA Method 1681: 2006	MPN/100ml	225	<1.8	<100	<1000

Dr. Subba Reddy Mallampati
Group Leader-Environment

ANNEXURE - 6

Vimta Labs Limited

Registered Office
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Hyderabad-500 051, Telangana, India
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ISSUED TO:

**M/S.ADANI LUCKNOW INTERNATIONAL
AIRPORT LIMITED.,
(CHAUDHARY CHARAN SINGH
INTERNATIONAL AIRPORT),
AMAUSI, LUCKNOW,
UTTAR PRADESH-226009S**

Report Number : VLL/VLS/21/02413/001
Issued Date : 2021.06.11
P. Order Ref : 5700291869
P. Order Date : 13.10.2020

Page 1 of 1


SAMPLE PARTICULARS : DIESEL GENERATOR EMISSION MONITORING
PLACE OF DG SET INSTALLED : SCADA Building

Sampling Date : 2021.06.07
Frequency of Monitoring : Half Yearly
Monitoring Month : JUNE 2021
Sample Registration Date : 2021.06.09
Sample Collected by Vimta Labs Ltd.

TEST REPORT

Sr. No.	PARAMETERS	UoM	METHOD OF TESTING	DG1	DG2	DG3	DG4	DG5	* Limits
Physical Parameter									
1	Capacity	KVA	-	750	750	750	750	750	--
2	Stack diameter	m	-	0.8	0.8	0.8	0.8	0.8	--
3	Area of the Stack	m ²	-	0.454	0.454	0.454	0.454	0.454	--
4	Flue gas Temperature	°C	USEPA M-2	312	308	311	269	294	--
5	Velocity of the Flue gas	m/Sec		14.2	13.3	13.34	12.55	13.5	--
6	Volumetric Flow rate	Nm ³ /hr		11660	11014	10990	10935	11270	--
Chemical Parameters									
7	Sulphur Dioxide	mg/Nm ³	USEPA CTM 30&34	59	64	75	87	68	--
8	Carbon Monoxide @ 15% O2	mg/Nm ³		151.10	92.19	172.08	144.07	89.55	≤ 3.5
9	Carbon Monoxide @ 15% O2	gr/kw-hr		2.349	1.348	2.542	2.101	1.346	
10	Oxides of Nitrogen @ 15% O2	mg/Nm ³		236.41	165.43	187.25	177.51	140.63	NO _x + HC ≤ 4.0
	Oxides of Nitrogen @ 15% O2	gr/kw-hr		3.675	2.419	2.766	2.588	2.113	
11	Hydro Carbons as CH4 @ 15% O2	mg/ Nm ³		20.61	21.27	46.93	37.73	21.07	
	Hydro Carbons as CH4 @ 15% O2	gr/kw-hr	0.320	0.311	0.693	0.550	0.317		
12	Particulate Matter @ 15% O2	mg/ Nm ³	USEPA M-5	7.20	6.81	12.52	10.98	8.43	≤ 0.2
	Particulate Matter @ 15% O2	gr/kw-hr		0.112	0.100	0.185	0.160	0.127	

*Limits as CPCB DG Emission Guidelines as Per GSR 771(E)


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UTTAR PRADESH-226009S

Report Number : VLL/VLS/21/02413/003
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SAMPLE PARTICULARS : DIESEL GENERATOR EMISSION MONITORING

PLACE OF DG SET INSTALLED : ATC Technical Block

Sampling Date : 2021.06.08
Frequency of Monitoring : Half Yearly
Monitoring Month : JUNE 2021
Sample Registration Date : 2021.06.09
Sample Collected by Vimta Labs Ltd.

TEST REPORT

Sr. No.	PARAMETERS	UoM	METHOD OF TESTING	DG1	DG2	* Limits
Physical Parameter						
1	Capacity	KVA	-	200	200	--
2	Stack diameter	m	-	0.43	0.43	--
3	Area of the Stack	m ²	-	0.1453	0.1453	--
4	Flue gas Temperature	°C	USEPA M-2	169	201	--
5	Velocity of the Flue gas	m/Sec		9.08	9.1	--
6	Volumetric Flow rate	Nm ³ /hr		3110	2911	--
Chemical Parameters						
7	Sulphur Dioxide	mg/Nm ³	USEPA CTM30&34	53	57	-
8	Carbon Monoxide @ 15% O2	mg/Nm ³		158.67	94.33	≤ 3.5
9	Carbon Monoxide @ 15% O2	gr/kw-hr		2.467	1.373	
10	Oxides of Nitrogen@ 15% O2	mg/Nm ³	USEPA	201.93	191.60	NOx + HC ≤ 4.0
	Oxides of Nitrogen@ 15% O2	gr/kw-hr	CTM30&34	3.140	2.789	
11	Hydro Carbons as CH4@ 15% O2	mg/ Nm ³	USEPA	40.23	36.02	
	Hydro Carbons as CH4@ 15% O2	gr/kw-hr	CTM30&34	0.626	0.524	
12	Particulate Matter@15% O2	mg/ Nm ³	USEPA M-5	12.52	10.98	≤ 0.2
	Particulate Matter @ 15% O2	gr/kw-hr		0.195	0.160	

*Limits as CPCB DG Emission Guidelines as Per GSR 771(E)



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SAMPLE PARTICULARS : DIESEL GENERATOR EMISSION MONITORING
PLACE OF DG SET INSTALLED : MSSR Building

Sampling Date : 2021.06.09
Frequency of Monitoring : Half Yearly
Monitoring Month : JUNE 2021
Sample Registration Date : 2021.06.09
Sample Collected by Vimta Labs Ltd.

TEST REPORT

Sr. No.	PARAMETERS	UoM	METHOD OF TESTING	DG1	* Limits
Physical Parameter					
1	Capacity	KVA	-	200	--
2	Stack diameter	m	-	0.55	--
3	Area of the Stack	m ²	-	0.24	--
4	Flue gas Temperature	°C	USEPA M-2	241	--
5	Velocity of the Flue gas	m/Sec		9.2	--
6	Volumetric Flow rate	Nm ³ /hr		4437	--
Chemical Parameters					
7	Sulphur Dioxide	mg/Nm ³	USEPA CTM30&34	57	--
8	Carbon Monoxide @ 15% O2	mg/Nm ³		72.46	≤ 3.5
9	Carbon Monoxide @ 15% O2	gr/kw-hr		1.607	
10	Oxides of Nitrogen@ 15% O2	mg/Nm ³		80.77	NOx + HC ≤ 4.0
	Oxides of Nitrogen@ 15% O2	gr/kw-hr		1.792	
11	Hydro Carbons as CH4@ 15% O2	mg/ Nm ³		18.11	
	Hydro Carbons as CH4@ 15% O2	gr/kw-hr	0.402		
12	Particulate Matter@15% O2	mg/ Nm ³	USEPA M-5	8.28	≤ 0.2
	Particulate Matter @ 15% O2	gr/kw-hr		0.184	

*Limits as CPCB DG Emission Guidelines as Per GSR 771(E)



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SAMPLE PARTICULARS : DIESEL GENERATOR EMISSION MONITORING
PLACE OF DG SET INSTALLED : DGCA Building

Sampling Date : 2021.09.23
Frequency of Monitoring : Half Yearly
Monitoring Month : SEPTEMBER 2021
Sample Registration Date : 2021.09.25
Sample Collected by Vimta Labs Ltd.

TEST REPORT

Sr. No.	PARAMETERS	UoM	METHOD OF TESTING	DG1	DG2	* Limits
Physical Parameter						
1	Capacity	KVA	-	320	320	--
2	Stack diameter	m	-	0.45	0.45	--
3	Area of the Stack	m ²	-	0.159	0.159	--
4	Flue gas Temperature	°C	USEPA M-2	211	198	--
5	Velocity of the Flue gas	m/Sec		9.77	9.85	--
6	Volumetric Flow rate	Nm ³ /hr		3324	3448	--
Chemical Parameters						
7	Sulphur Dioxide	mg/Nm ³	USEPA CTM30&34	58	51	--
8	Carbon Monoxide @ 15% O ₂	mg/Nm ³		158.67	109.77	≤ 3.5
9	Carbon Monoxide @ 15% O ₂	gr/kw-hr		1.602	1.215	
10	Oxides of Nitrogen @ 15% O ₂	mg/Nm ³		249.66	163.43	NO _x + HC ≤ 4.0
	Oxides of Nitrogen @ 15% O ₂	gr/kw-hr		2.521	1.809	
11	Hydro Carbons as CH ₄ @ 15% O ₂	mg/ Nm ³		49.17	29.16	
	Hydro Carbons as CH ₄ @ 15% O ₂	gr/kw-hr	0.496	0.323		
12	Particulate Matter @ 15% O ₂	mg/ Nm ³	USEPA M-5	13.41	12.06	≤ 0.2
	Particulate Matter @ 15% O ₂	gr/kw-hr		0.135	0.134	

*Limits as CPCB DG Emission Guidelines as Per GSR 771(E)



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SAMPLE PARTICULARS : DIESEL GENERATOR EMISSION MONITORING
PLACE OF DG SET INSTALLED : CCR office
Sampling Date : 2021.09.24
Frequency of Monitoring : Half Yearly
Monitoring Month : SEPTEMBER 2021
Sample Registration Date : 2021.09.27
Sample Collected by Vimta Labs Ltd.

TEST REPORT

Sr. No.	PARAMETERS	UoM	METHOD OF TESTING	DG1	DG2	* Limits
Physical Parameter						
1	Capacity	KVA	-	320	320	--
2	Stack diameter	m	-	0.45	0.45	--
3	Area of the Stack	m ²	-	0.16	0.16	--
4	Flue gas Temperature	°C	USEPA M-2	238	251	--
5	Velocity of the Flue gas	m/Sec		10.99	11.80	--
6	Volumetric Flow rate	Nm ³ /hr		3564	3755	--
Chemical Parameters						
7	Sulphur Dioxide	mg/Nm ³	USEPA CTM30&34	55	52	--
8	Carbon Monoxide @ 15% O ₂	mg/Nm ³		104.59	92.75	≤ 3.5
9	Carbon Monoxide @ 15% O ₂	gr/kw-hr		1.260	1.140	
10	Oxides of Nitrogen@ 15% O ₂	mg/Nm ³		136.58	104.64	NO _x + HC ≤ 4.0
	Oxides of Nitrogen@ 15% O ₂	gr/kw-hr		1.645	1.286	
11	Hydro Carbons as CH ₄ @ 15% O ₂	mg/ Nm ³		26.82	20.11	
	Hydro Carbons as CH ₄ @ 15% O ₂	gr/kw-hr	0.323	0.247		
12	Particulate Matter@15% O ₂	mg/ Nm ³	USEPA M-5	13.24	15.01	≤ 0.2
	Particulate Matter @ 15% O ₂	gr/kw-hr		0.160	0.184	

*Limits as CPCB DG Emission Guidelines as Per GSR 771(E)



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SAMPLE PARTICULARS : DIESEL GENERATOR EMISSION MONITORING
PLACE OF DG SET INSTALLED : SCADA Building

Sampling Date : 2021.12.16
Frequency of Monitoring : Half Yearly
Monitoring Month : DECEMBER 2021
Sample Registration Date : 2021.12.18
Sample Collected by Vimta Labs Ltd

TEST REPORT

Sr. No.	PARAMETERS	UoM	METHOD OF TESTING	DG1	DG2	DG3	DG4	DG5	* Limits
Physical Parameter									
1	Capacity	KVA	-	750	750	750	750	750	--
2	Stack diameter	m	-	0.8	0.8	0.8	0.8	0.8	--
3	Area of the Stack	m ²	-	0.454	0.454	0.454	0.454	0.454	--
4	Flue gas Temperature	°C	USEPA M-2	253	297	300	274	286	--
5	Velocity of the Flue gas	m/Sec		14.33	14.9	14.38	13.84	13.99	--
6	Volumetric Flow rate	Nm ³ /hr		12626	12425	11911	12013	11884	--
Chemical Parameters									
7	Sulphur Dioxide	mg/Nm ³	USEPA CTM 30&34	80	75	86	81	91	--
8	Carbon Monoxide @ 15% O ₂	mg/Nm ³		104.27	130.94	109.90	124.92	135.77	≤ 3.5
9	Carbon Monoxide @ 15% O ₂	gr/kw-hr		1.753	2.169	1.745	2.001	2.151	
10	Oxides of Nitrogen@ 15% O ₂	mg/Nm ³		135.78	178.03	137.79	173.09	184.49	NO _x + HC ≤ 4.0
	Oxides of Nitrogen@ 15% O ₂	gr/kw-hr		2.282	2.949	2.188	2.772	2.923	
11	Hydro Carbons as CH ₄ @ 15% O ₂	mg/Nm ³		10.93	37.63	20.25	28.60	38.55	
	Hydro Carbons as CH ₄ @ 15% O ₂	gr/kw-hr	0.184	0.623	0.322	0.458	0.611		
12	Particulate Matter@15% O ₂	mg/ Nm ³	USEPA M-5	10.33	9.13	8.45	7.93	9.10	≤ 0.2
	Particulate Matter @ 15% O ₂	gr/kw-hr		0.174	0.151	0.134	0.127	0.144	

*Limits as CPCB DG Emission Guidelines as Per GSR 771(E)



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SAMPLE PARTICULARS : DIESEL GENERATOR EMISSION MONITORING
PLACE OF DG SET INSTALLED : ATC Technical Block

Sampling Date : 2021.12.14
Frequency of Monitoring : Half Yearly
Monitoring Month : DECEMBER 2021
Sample Registration Date : 2021.12.16
Sample Collected by Vimta Labs Ltd

TEST REPORT

Sr. No.	PARAMETERS	UoM	METHOD OF TESTING	DG1	DG2	* Limits
Physical Parameter						
1	Capacity	KVA	-	200	200	--
2	Stack diameter	m	-	0.43	0.43	--
3	Area of the Stack	m ²	-	0.1453	0.1453	--
4	Flue gas Temperature	°C	USEPA M-2	201	192	--
5	Velocity of the Flue gas	m/Sec		9.10	9.8	--
6	Volumetric Flow rate	Nm ³ /hr		2905	3196	--
Chemical Parameters						
7	Sulphur Dioxide	mg/Nm ³	USEPA CTM30&34	72	67	--
8	Carbon Monoxide @ 15% O ₂	mg/Nm ³		130.74	141.83	≤ 3.5
9	Carbon Monoxide @ 15% O ₂	gr/kw-hr	1.899	2.266		
10	Oxides of Nitrogen @ 15% O ₂	mg/Nm ³	USEPA CTM30&34	162.47	173.97	NO _x + HC ≤ 4.0
	Oxides of Nitrogen @ 15% O ₂	gr/kw-hr		2.360	2.780	
11	Hydro Carbons as CH ₄ @ 15% O ₂	mg/ Nm ³	USEPA CTM30&34	28.49	41.60	
	Hydro Carbons as CH ₄ @ 15% O ₂	gr/kw-hr		0.414	0.665	
12	Particulate Matter @ 15% O ₂	mg/ Nm ³	USEPA M-5	11.40	10.78	≤ 0.2
	Particulate Matter @ 15% O ₂	gr/kw-hr		0.166	0.172	

*Limits as CPCB DG Emission Guidelines as Per GSR 771(E)


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SAMPLE PARTICULARS : DIESEL GENERATOR EMISSION MONITORING
PLACE OF DG SET INSTALLED : MSSR Building

Sampling Date	: 2021.12.18
Frequency of Monitoring	: Half Yearly
Monitoring Month	: DECEMBER 2021
Sample Registration Date	: 2021.12.20
Sample Collected by Vimta Labs Ltd.	

TEST REPORT

Sr. No.	PARAMETERS	UoM	METHOD OF TESTING	DG1	* Limits
Physical Parameter					
1	Capacity	KVA	-	200	--
2	Stack diameter	m	-	0.55	--
3	Area of the Stack	m ²	-	0.24	--
4	Flue gas Temperature	°C	USEPA M-2	221	--
5	Velocity of the Flue gas	m/Sec		8.46	--
6	Volumetric Flow rate	Nm ³ /hr		4236	--
Chemical Parameters					
7	Sulphur Dioxide	mg/Nm ³	USEPA CTM30&34	58	--
8	Carbon Monoxide @ 15% O2	mg/Nm ³		79.77	≤ 3.5
9	Carbon Monoxide @ 15% O2	gr/kw-hr		1.690	
10	Oxides of Nitrogen @ 15% O2	mg/Nm ³		111.27	NOx + HC ≤ 4.0
	Oxides of Nitrogen @ 15% O2	gr/kw-hr		2.357	
11	Hydro Carbons as CH4 @ 15% O2	mg/ Nm ³		28.60	
	Hydro Carbons as CH4 @ 15% O2	gr/kw-hr	0.606		
12	Particulate Matter @ 15% O2	mg/ Nm ³	USEPA M-5	6.77	≤ 0.2
	Particulate Matter @ 15% O2	gr/kw-hr		0.143	

*Limits as CPCB DG Emission Guidelines as Per GSR 771(E)


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SAMPLE PARTICULARS : DIESEL GENERATOR EMISSION MONITORING
PLACE OF DG SET INSTALLED : DGCA Building

Sampling Date : 2022.03.17
Frequency of Monitoring : Quarterly
Monitoring Month : MARCH 2022
Sample Registration Date : 2022.03.19
Sample Collected by Vimta Labs Ltd.

TEST REPORT

Sr. No.	PARAMETERS	UoM	METHOD OF TESTING	DG1	DG2	* Limits
Physical Parameter						
1	Capacity	KVA	-	320	320	--
2	Stack diameter	m	-	0.45	0.45	--
3	Area of the Stack	m ²	-	0.159	0.159	--
4	Flue gas Temperature	^o C	USEPA M-2	218	197	--
5	Velocity of the Flue gas	m/Sec		11.92	11.65	--
6	Volumetric Flow rate	Nm ³ /hr		8995	4086	--
Chemical Parameters						
7	Sulphur Dioxide	mg/Nm ³	USEPA CTM30&34	78	67	--
8	Carbon Monoxide @ 15% O2	mg/Nm ³		112.93	77.58	≤ 3.5
9	Carbon Monoxide @ 15% O2	gr/kw-hr		1.410	0.991	NOx + HC ≤ 4.0
10	Oxides of Nitrogen@ 15% O2	mg/Nm ³		141.99	122.73	
	Oxides of Nitrogen@ 15% O2	gr/kw-hr		1.773	1.567	
11	Hydro Carbons as CH4@ 15% O2	mg/ Nm ³		26.50	23.94	
	Hydro Carbons as CH4@ 15% O2	gr/kw-hr	0.331	0.306		
12	Particulate Matter@15% O2	mg/ Nm ³	USEPA M-5	11.06	9.96	≤ 0.2
	Particulate Matter @ 15% O2	gr/kw-hr		0.138	0.127	

*Limits as CPCB DG Emission Guidelines as Per GSR 771(E)

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SAMPLE PARTICULARS : DIESEL GENERATOR EMISSION MONITORING
PLACE OF DG SET INSTALLED : CCR office

Sampling Date : 2022.03.18
Frequency of Monitoring : Quarterly
Monitoring Month : MARCH 2022
Sample Registration Date : 2022.03.20
Sample Collected by Vimta Labs Ltd.

TEST REPORT

Sr. No.	PARAMETERS	UoM	METHOD OF TESTING	DG1	DG2	* Limits
Physical Parameter						
1	Capacity	KVA	-	320	320	--
2	Stack diameter	m	-	0.45	0.45	--
3	Area of the Stack	m ²	-	0.16	0.16	--
4	Flue gas Temperature	^o C	USEPA M-2	212	204	--
5	Velocity of the Flue gas	m/Sec		10.97	11.1	--
6	Volumetric Flow rate	Nm ³ /hr		3754	3853	--
Chemical Parameters						
7	Sulphur Dioxide	mg/Nm ³	USEPA CTM30&34	75	67	--
8	Carbon Monoxide @ 15% O2	mg/Nm ³		132.75	130.24	≤ 3.5
9	Carbon Monoxide @ 15% O2	gr/kw-hr		1.391	1.568	
10	Oxides of Nitrogen@ 15% O2	mg/Nm ³		193.86	188.19	NOx + HC ≤ 4.0
	Oxides of Nitrogen@ 15% O2	gr/kw-hr		2.032	2.266	
11	Hydro Carbons as CH4@ 15% O2	mg/ Nm ³		26.55	29.81	
	Hydro Carbons as CH4@ 15% O2	gr/kw-hr	0.278	0.359		
12	Particulate Matter@15% O2	mg/ Nm ³	USEPA M-5	15.34	15.06	≤ 0.2
	Particulate Matter @ 15% O2	gr/kw-hr		0.161	0.181	

*Limits as CPCB DG Emission Guidelines as Per GSR 771(E)

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ANNEXURE - 7

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Lucknow International Airport Limited

From : April'2022

To : Sept'2022

Annexure 7 – Project Area Barricading Photographs



ANNEXURE - 8



Lucknow International Airport Limited

From : April'2022

To : Sept'2022

Annexure 8 - Compliance to the applicable points of MoEF&CC GSR 94(E) dated 25.01.2018 of MoEF&CC regarding Mandatory Implementation of Dust Mitigation Measures for Construction and Demolition Activities

Sr. No.	Conditions	Compliance Status as on 30th Sept 2022
106 Mandatory Implementation of Dust Mitigation Measures for Construction and Demolition Activities for projects requiring Environmental Clearance:		
	No building or infrastructure project requiring Environmental Clearance shall be implemented without approved Environmental Management Plan inclusive of dust mitigation measures.	Complied Environment Management Plan has been prepared for both construction and Operation phase, as a part of Environment Clearance process. Environment Clearance has been received vide dtd. 26-Sept-2018. Environment Management plan for construction phase is being implemented at site.
i.	Roads leading to or at construction sites must be paved and blacktopped (i.e. metallic roads).	Complied Roads leading to the construction sites are well paved. Photograph showing environment management measures during construction phase, are attached as Annexure 9
ii.	No excavation of soil shall be carried out without adequate dust mitigation measures in place.	Complied Regular Water sprinkling is done to minimize the dust emission from the excavation, levelling, transportation and stockpiling activities. Photograph showing environment management measures during construction phase, are attached as Annexure 9
iii.	No loose soil or sand or Construction & Demolition Waste or any other construction material that causes dust shall be left uncovered.	Complied All the waste generated are stored at designated place within the site. Construction and Demolition waste generated are being used in filling low lying areas

	Lucknow International Airport Limited	From : April'2022 To : Sept'2022
Annexure 8 - Compliance to the applicable points of MoEF&CC GSR 94(E) dated 25.01.2018 of MoEF&CC regarding Mandatory Implementation of Dust Mitigation Measures for Construction and Demolition Activities		

		Photograph showing environment management measures during construction phase, are attached as Annexure 9
iv.	Wind-breaker of appropriate height i.e. 1/3rd of the building height and maximum up to 10 meters shall be provided.	Barricading has been provided along the construction site. Photographs enclosed as Annexure- 7
v.	Water sprinkling system shall be put in place.	Complied Regular Water sprinkling is done to minimize the dust emission from the excavation, levelling, transportation and stockpiling activities. Photograph showing environment management measures during construction phase, are attached as Annexure 9
107. Mandatory Implementation of Dust Mitigation Measures for all Construction and Demolition Activities:		
i	Grinding and cutting of building materials in open area shall be prohibited.	Complied No grinding cutting activities are being carried out in open areas.
ii	Construction material and waste should be stored only within earmarked area and road side storage of construction material and waste shall be prohibited.	Complied All the waste generated are stored at designated place within the site and Construction and Demotion waste generated are being used in filling low lying areas Photograph showing environment management measures during construction phase, are attached as Annexure 9
iii	No uncovered vehicles carrying construction material and waste shall be permitted.	Complied All the vehicles delivering materials to the site are covered using impervious sheet to avoid spillage of material/dust.

	<p>Lucknow International Airport Limited</p>	<p>From : April'2022 To : Sept'2022</p>
<p>Annexure 8 - Compliance to the applicable points of MoEF&CC GSR 94(E) dated 25.01.2018 of MoEF&CC regarding Mandatory Implementation of Dust Mitigation Measures for Construction and Demolition Activities</p>		

		<p>Photograph showing environment management measures during construction phase, are attached as Annexure 9</p>
<p>iv</p>	<p>Construction and Demolition Waste processing and disposal site shall be identified and required dust mitigation measures be notified at the site.</p>	<p>Complied</p> <p>Construction and Demotion waste generated are being used in filling low lying areas</p> <p>Photograph showing environment management measures during construction phase, are attached as Annexure 9</p>

ANNEXURE - 9

Annexure 6– Photographs showing Environment Management at Construction Sites



Barricading arrangements



Vehicle carrying covered Construction Material



Lucknow International Airport Limited

From : October'2021

To : March'2022

Annexure 6– Photographs showing Environment Management at Construction Sites



Housekeeping



Lucknow International Airport Limited

From : October'2021

To : March'2022

Annexure 6– Photographs showing Environment Management at Construction Sites



Water sprinkling at Regular intervals

Annexure 6– Photographs showing Environment Management at Construction Sites



Construction Materials covered





Lucknow International Airport Limited

From : October'2021

To : March'2022

Annexure 6- Photographs showing Environment Management at Construction Sites



Plantation



LED Light for reducing power consumption



Lucknow International Airport Limited

From : October'2021

To : March'2022

Annexure 6– Photographs showing Environment Management at Construction Sites



Use of hessian cloth to save water during concrete slab curing