adani

LIAL/EC/ENV/21-22/0633 **29-11-2021**

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 - rocz.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. Request for consideration of Name Change in existing Environment Clearance for Proposed terminal building at Amousi Airport Lucknow from Airports Authority of India (AAI) to Lucknow International Airport Limited (LIAL) erstwhile known as Adani Lucknow International Airport (ALIAL) submitted vide online EC application dtd. 13th August 2021.

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.

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-2021 to September-2021 through soft copy (e-mail communication).

Request for your kind consideration and acknowledgment.

Thank you,
Yours Sincerely,
For Lucknow International Airport Limited

Suresh Chandra Hota
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

Tel: +91 522 243 6022
Fax: +91 522 243 2883
Email: adaniairports@adani.com
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

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

Tel: +91 522 243 6022
Fax: +91 522 243 2883
Email: adaniairports@adani.com
Website: www.lucknow.adaniairports.com

CIN: U63030GJ2019PLC109814

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

adani	Lucknow International Airport Limited	From : April'21 To : Sept'21
Status of the conditions stipulated in Environment Clearance		

Compliance Report of Environmental Clearance dtd. 23rd May 2012

For Construction of Terminal Building

adani	Lucknow International Airport Limited	From : April'21 To : Sept'21
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.

As a part of the Environment Clearance dtd. 23rd May 2012, for "Construction of Terminal Building" along with the associated facilities (including parking area) have been developed and are under operation. T1 terminal and its associated groundside/airside operational facilities were considered prior to this Environment Clearance.

Online application for Transfer of Environment Clearance from Airport Authority of India (AAI) to Adani Lucknow International Airport limited (ALIAL), inline to Para 11 of EIA notification 2006, amended till date was submitted through Parivesh on 23rd August 2021. **Acknowledge copy attached as Annexure -1.**

Certificate of Incorporation has been issued by Ministry of Corporate Affairs, consequent upon change of name from "Adani Lucknow International Airport Limited (ALIAL)" to "Lucknow International Airport Limited (LIAL)" vide dtd. 9th November 2021. **Copy for the same has been attached as Annexure-1a.**

adani	Lucknow International Airport Limited	From : April'21 To : Sept'21
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 30th September 2021
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	**Condition not applicable to LIAL** Construction activity has already been completed and project is commissioned and under operation. Copy of Consent to Operate obtained under Air & Water Act, was submitted along with compliance report for the period Oct'20 to Mar'21.
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 waste water to reduce the fresh water requirement. It is also suggested to provide the rain water harvesting pits to recharge the ground water.	**Condition not applicable to LIAL** 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.	**Complied** As a part of New Integrated Terminal Building and Allied Services, Environment Clearance, Noise level prediction modelling was done for day-night equivalent noise level (LDN) as recommended by CPCB for airports and as per international practices and same was also submitted to MoEF&CC as a part of EIA.
iv.	The Entry and Exits for the nearby habitations shall be provided as demanded and	**Condition not applicable to LIAL**

	committed in the public hearing.	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.	**Condition not applicable to LIAL** Construction activity has already been completed and project is commissioned and under operation.
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.	**Condition not applicable to LIAL** However, operational EMP is being implemented. **Attached Annexure -2**
vii.	The solid waste shall be properly collected, segregated and disposed as per the provision of Solid Waste. (Management and Handling) Rules, 2000.	**Condition not applicable to LIAL** 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.	**Condition not applicable to LIAL** 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.	A First Aid Room facility has been provided at Terminal 2. **Details & Photograph are attached as Annexure-3**

x.	All the topsoil excavated during construction activities should be stored for use in horticulture/landscape development within the project site.	**Condition not applicable to LIAL** Construction activity has already been completed and project is commissioned and under operation.
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.	**Condition not applicable to LIAL** 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.	**Condition not applicable to LIAL** 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.	**Condition not applicable to LIAL** 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.	**Condition not applicable to LIAL** 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.	**Condition not applicable to LIAL** 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.	**Condition not applicable to LIAL** Construction activity has already been completed and project is commissioned and under operation.
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.	**Condition not applicable to LIAL** Construction activity has already been completed and project is commissioned and under operation.
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.	**Condition not applicable to LIAL** Construction activity has already been completed and project is commissioned and under operation.
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.	**Condition not applicable to LIAL** Construction activity has already been completed and project is commissioned and under operation.
xx.	Ready mixed concrete must be used in building construction.	**Condition not applicable to LIAL** Construction activity has already been completed and project is commissioned and under operation.
xxi.	Storm water control and its re-use as per CGWB and BIS	**Condition not applicable to LIAL**

	standards for various applications.	Construction activity has already been completed and project is commissioned and under operation.
xxii.	Water demand during construction should be reduced by use of pre-mixed concrete; curing agents and other best practices referred.	**Condition not applicable to LIAL** 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.	**Complied** Sensor based water flow control system has been provided at Toilets and Drinking water facilities.
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.	**Condition not applicable to LIAL** Various energy conservation measures like installation of LED lights, solar panels etc implemented at site. Inline to existing operations, Solar panels of total capacity of about 515 KV is installed. **(Photographs attached as Annexure-7)**
xxv.	Roof should meet prescriptive. Requirement as per Energy Conservation Building Code by using appropriate thermal insulation material to fulfil requirement.	**Condition not applicable to LIAL** Various energy conservation measures like installation of LED lights, solar panels etc implemented at site. Inline to existing operations, Solar panels of total capacity of about 515 KV is installed. **(Photographs attached as Annexure-7)**
xxvi.	Opaque wall should meet prescriptive requirement as per Energy. Conservation Building Code which is	**Condition not applicable to LIAL**

	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.	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 including protection measures from lightening etc.	**Complied** Fire safety certificate for operational Terminals attached as **Annexure-4**
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.	**Condition not applicable to LIAL** Construction activity has already been completed and project is commissioned and under operation.
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.	**Condition not applicable to LIAL** Construction activity has already been completed and project is commissioned and under operation.
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	**Complied** Power source for Airport Operation is Madhyanchal Vidyut Vitran Nigam limited. 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.

	the DG sets may be decided with in consultation with Uttar Pradesh Pollution Control Board.	Low Sulphur diesel is being used for all the DG sets and acoustic Enclosures are provided to DG set. Photograph showing acoustic enclosure to DG set is attached as **Annexure - 5**
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 levels to comply with the prevalent regulations.	**Complied** Efficient Noise Control measures are being implemented inline to Environment Management Plan. All the equipment/machineries are maintained regularly. In high noise operating areas, PPEs are made available to the personal operating nearby. Ambient Noise Level Monitoring is being carried out regularly at 04 locations by MoEF&CC/NABL approved laboratory. All the results are well within norms. Environment Monitoring report, covering Noise Monitoring carried out during the compliance period (April 2021-September 2021) is attached as **Annexure 6.**
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.	**Complied** 5.8 Hectare of Green Cover has been developed considering contextual and functional requirements, and overall environmental and landscape planning approach. Further, as a part of Integrated Terminal Building project, Green cover will be developed considering Bird menace, height restriction and restriction in operation areas.
iv.	Rain water harvesting for roof run- off and surface run- off, as plan submitted should be	**Complied**

	implemented. Before recharging the surface run off, pre-treatment must be done to remove suspended matter, oil and grease. The borewell for: rainwater recharging should be kept at least 5 mts above the highest ground water table.	Rainwater harvesting is being carried out Rooftop and surface roof off. Further, as a part of Integrated Terminal Building Construction, Water conservation consideration, w.r.t rain water harvesting, ground water recharging are being taken in to design phase and implementation.
v.	The ground water level and its quality should be monitored regularly in consultation with Central Ground Water Authority.	**Complied** NOC for abstraction of Ground Water has been applied for the Renewal in the month of August -September 2021 to UPGWD. Environment Monitoring report, covering Ground water monitoring carried out by MoEF&CC/NABL accredited Laboratory during the compliance period (April 2021-September 2021) is attached as **Annexure 6.**
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.	**Complied.** Traffic congestion near entry and exist point managed with the help of LIAL security and Traffic Police Department, and sufficient parking space has been managed all the time within the Airport premises.
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	**Complied** Various energy conservation measures like installation of LED lights, solar panels etc implemented at site. Inline to existing operations, Solar panels of total capacity of about 515 KV is installed. **(Photographs attached as Annexure-7)**

	avoid mercury contamination. Use of solar panels may be done to the extent possible.	
viii.	Efforts should be made to use solar energy to the maximum extent possible.	**Complied** Inline to existing operations, Solar panels of total capacity of about 515 KV is installed.
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.	**Noted for Compliance**
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.	**Acknowledged**
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.	**Acknowledged**
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	**Acknowledged** Full support is being extended to the regulatory authorities during their visit to the site. Last visit of SPCB officials was done in the month of September 2021.

	other environmental protection activities.	
v.	These stipulations would be enforced among others under the provisions of water (Prevention and Conrol 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.	**Acknowledged**
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 as **Annexure-4**
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	**Noted & Complied** Copy of EC is seen on MoEF&CC website http://environmentclearance.nic.in/writereaddata/Form-1A/EC/05_Jul_2017_191733980YFJ59F42ECLetter.pdf

	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.	
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.	**Condition not applicable to LIAL**
x.	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.	**Complied**
xi.	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	**Point noted for compliance** The development of Website is under progress and same will be uploaded on the website once it is fully functional. Last Six-monthly Compliance Report for the period (Oct'20 – Mar'21) was submitted to Regional office of MoEFCC, CPCB Zonal office, SPCB vide dated

	SPCB.- The criteria pollutant levels namely; SPM, RSPM, S02, NOx (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.	28th May 2021. (Email Copy Attached as **Annexure-8**). Environment display boards shall be displayed at appropriate place for information / awareness of public
xii.	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.	**Complied** Six-monthly Compliance Report for the period (Oct'20 – Mar'21) was submitted to Regional office of MoEFCC, CPCB Zonal office, SPCB vide dated 28th May 2021. (Email Copy Attached as **Annexure-8**).
xiii.	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 by e-mail.	**Complied** Environment statement for the FY 2020-21 submitted vide letter reference number ALIAL/CAO/ES/21-22/0537 dated 23rd September 2021.(Copy Attached as **Annexure-9**) The development of Website is under progress and same will be uploaded on the website once it is fully functional.

adani	Lucknow International Airport Limited	From : April'21 To : Sept'21
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

adani	Lucknow International Airport Limited	From : April'21 To : Sept'21
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. Copy of the same attached as **Annexure- 21.**

Certificate of Incorporation issued by Ministry of Corporate Affairs, consequent upon change of name from "Adani Lucknow International Airport Limited (ALIAL)" to "Lucknow International Airport Limited (LIAL)" vide dtd. 9th November 2021.
Copy for the same has been attached as Annexure-1a.

The existing Lucknow Airport is spread over an area of 1261.18 acres/ 510.38 ha of land and a total of 90 acres/ 36.42 ha of this land will be utilized for the modernization project.

As a part of this clearance, it is proposed for Construction of new Integrated terminal building and allied facilities (after dismantling Terminal-1), Multi-level car parking, Four lane vehicular road from terminal building/car parking, sewage treatment plant of 1950 KLD capacity, AC Plant Room, 33 KV Electrical substation, Static tank and pump room and other allied facilities to support the existing and proposed Terminals. Construction inline to the T3 Environment Clearance is under progress.

Copy of Layout showing Chaudhary Charan Singh International Airport is attached as **Annexure -10.**

adani	Lucknow International Airport Limited	From : April'21 To : Sept'21
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 30th September 2021
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** The 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 for which Environmental Clearance has been granted vide file reference number 10-47/2017-IA-III dated 26th Sept 2018.
2.	Clearance from Directorate General of Civil Aviation (DGCA) and Airports Authority of India (AAI) for safety and project facilities shall be obtained.	**Noted for Compliance** Aerodrome license for Lucknow Airport, issued by DGCA attached as **Annexure 11**.
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.	**Being 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 in the Name of ALIAL obtained vide dated 21st Oct 2020. Copy of CtE and CtE transfer order is attached as **Annexure 12**

4	The Construction site should be adequately barricaded before the construction begins.	**Being Complied** Adequate barricade arrangements have been done to keep the site isolated from surroundings. Photograph showing barricades are attached as **Annexure 13.**
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.	**Being 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 14.**
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.	**Being Complied** LIAL is ensuring the compliance to the applicable points of MoEF&CC GSR 94(E) dated 25.01.2018, as 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 -15.**

8	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.	**Being Complied** All the vehicles delivering materials to the site are covered using impervious sheet to avoid spillage of material/dust. Photographs showing Construction related Environment Management practices area attached as **Annexure 15**
9	The excavation working area should be sprayed with water after operation so as to maintain the entire surface wet.	**Being Complied** Regular Water sprinkling is done to minimize the dust emission from the excavation, levelling, transportation and stockpiling activities. Photographs showing Construction related Environment Management practices area attached as **Annexure 15**
10	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.	**Being Complied** 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. **(Soil Analysis Report attached as Annexure-16)** Stock piles are properly designed at site to ensure that there is not sedimentation runoff. Photographs showing Construction related Environment Management practices area attached as **Annexure 15.**
11	A detailed drainage plan for rain water shall be drawn up and implemented.	**Being complied** The detailed Rainwater harvesting plan has been designed and will be implemented. The rainwater system / drainage system consists of RCC drains, 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 rain water harvesting potential up to 114 ML/Year, which is being implemented. **(Plan showing Infiltration wells attached as Annexure-19.)**
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.	**Being Complied** A complete airport level drainage plan is being prepared to address drainage issues both Airside & Cityside.
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.	**Noted for compliance** Natural drains have not been observed within the project boundaries. Work on Proposed Storm water drainage to be connected to natural drains shall be undertaken after proper permission from the concerned department.
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** NOC for abstraction of Ground Water has been applied for the Renewal in the month of August -September 2021 to UPGWD.
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.	**Complied** Construction specific Environment Management Plan has been deployed at site Adequate Nosie control Measures has been implemented like

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		• 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. Copy of Noise Monitoring near construction site is attached as **Annexure -6**
16	Where construction activity is likely to cause noise nuisance to nearby residents, restrict operation hours between 7 am to 6 pm.	**Complied** 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. Copy of Noise Monitoring near construction site is attached as **Annexure 6**
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 per Solid Waste Management Rules, 2016 and Construction and Demolition Waste Management Rules, 2016.	**Being Complied** Solid inert waste (Plastic, Glass, Metals etc) generated at construction sites are disposed through authorized agency. 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 Photographs showing Construction related Environment Management practices area attached as **Annexure 15**
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	**Noted for Compliance.** D.G. Sets will be installed confirming rules made under the Environment

	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.	(Protection) Act, 1986 with adequate stack height and enclosure.
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.	**Noted for compliance.** Spillage control plan shall be developed and 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.
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.** Spillage control plan shall be developed and 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
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.	**Being 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.	**Being Complied** Same as condition no 11

24	Total water requirement from ground water shall not exceed 1245 KLD. Groundwater shall only be extracted with prior permission from CGWA.	**Being Complied** Same as condition no 14
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.	**Being 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 and design drawing is attached as **Annexure 20.**
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.	**Noted for Compliance** As part of Construction phase, the solid wastes generated is segregated and disposed through authorized agency. Waste management Plan for construction phase, has been developed and is being implemented. Same was submitted along with compliance report for the period Oct'20 – Mar'21.
27	Continuous online air monitoring system shall be in place for expansion project.	**Noted for Compliance.** Presently the project is under Construction phase. However, Continuous online air monitoring system shall be installed during operational Phase.

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.	**Noted for Compliance.** Presently the project is under Construction phase. However all the DG sets, used for construction phase, are provided with enclosures. Photographs showing Construction related Environment Management practices area attached as **Annexure 15.**
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.	**Noted for Compliance.** Presently the project is under Construction phase.
30	An automatic ambient air quality monitoring station shall be provided, within the premises, to the satisfaction of the State Pollution Control Board and the data transferred to the Board.	**Noted for Compliance.** Presently the project is under Construction phase.
31	It shall be ensured that no part of the project causes any infringement on the rights of people dwelling in the surrounding areas.	**Noted for Compliance.** It is ensured in conformity with Aircraft Safety rules 2015.
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	**Noted for Compliance** Additional access road is under implementation by state Government. This would de-congest the existing airport entry point and provide alternate exit route. Sufficient numbers of car parking are being provided with in the Airport premises.

	class 'A' level of service by the Ministry of Road Transport.	
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.	**Noted for compliance** Traffic related measures are being implemented for vehicles during construction phase. The mitigation measures as mentioned in EIA Report shall be implemented in Operation phase also.
34	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.	**Being complied** Following Energy Conservation measures are being incorporated in proposed terminal building: 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.
35	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.	**Noted for compliance** For existing operation, Disaster Management Plan/Aerodrome Emergency Plan is available and has been implemented **(Copy attached as Annexure-17).**

		Similarly, when proposed terminal will come under operation, DMP/AEP will be developed/amended and same shall be implemented.
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.	**Noted for Compliance** Green cover will be developed over a proposed area of 23.42 Hectare as per the plantation plan provisioned in the Final EIA report.
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.	**Noted for Compliance** 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.
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.	**Noted for Compliance** CSR works will be carried out inline to the applicability of Section 135 of the Companies Act, 2013.
39	The company shall draw up and implement a corporate social Responsibility plan as per the Company's Act of 2013.	**Noted for Compliance** CSR works will be carried out inline to the applicability of Section 135 of the Companies Act, 2013.
40	As per the Ministry's Office Memorandum F.No. 22-65/2017-IA.III dated 1st May 2018, and proposed by the project proponent, an amount of	**Noted for Compliance** CER funds is being allocated based on the year's financial budget, and

	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.	accordingly CER activities will be planned and implemented in consultation with local administration. LIAL is under discussion with District administration to identify key activities, surrounding the project site, for further consideration as a part of CER.
B.	**GENERAL CONDITIONS**	
1	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.	**Complied**
2	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.	**Noted for compliance** Presently the project is under construction phase. The funds for environmental protection measures shall be kept posted in a separate account head and year wise expenditure and utilization report shall

		be furnished in the next phase of compliance.
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.	**Being Complied** Full support is being extended to the regulatory authorities during their visit to the site. Last visit of SPCB officials was done in the month of September 2021.
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** All the stipulated Terms & Conditions of EC will be complied with to avoid such situations. Environmental Safeguards, as proposed in the Environment management plan will be properly implemented.
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.	**Being Complied** Provisional Fire N.O.C. is attached as **Annexure 18.** Approvals as required during operational phase will be taken from the concerned authorities.
7	These stipulations would be enforced among others under the provisions of the Water (Prevention	**Noted for compliance**

	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.	
8	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.	**Noted & Complied** Copy of EC is seen on MoEF&CC website http://environmentclearance.nic.in/onlinesearchnewrk.aspx?autoid=10992&proposal_no=IA/UP/MIS/65954/2017&typep=EC
9	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.	**Condition not applicable to LIAL**
10	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.	**Noted & Complied** Copy of EC is seen on MoEF&CC website http://environmentclearance.nic.in/onlinesearchnewrk.aspx?autoid=10992&proposal_no=IA/UP/MIS/65954/2017&typep=EC
11	The proponent shall upload the status of compliance of the stipulated EC conditions, including	**Noted for Compliance**

	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, NOx (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.	The development of Website is under progress and same will be uploaded on the website once it is fully functional. Last Six-monthly Compliance Report for the period (Oct'20 – Mar'21) was submitted to Regional office of MoEF&CC, CPCB Zonal office, SPCB vide dated 28th May 2021. (Email Copy Attached as **Annexure-8** Environment display boards shall be displayed at appropriate place for information / awareness of public
12	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 sand shall also be sent to the respective Regional Offices of MoEF&CC by e-mail.	**Complied** Environment statement for the existing operations has been submitted vide letter reference number ALIAL/CAO/ES/21-22/0537 dated 23th Sept 2021. (Copy Attached as **Annexure-9**) The development of Website is under progress and same will be uploaded on the website once it is fully functional.

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LIST OF ANNEXURES

Annexure – 1	EC transfer request letter for "Construction of Terminal Building" vide dtd 23rd August 2021
Annexure – 1a	Certificate of Incorporation pursuant for change of name issued by Ministry of Corporate Affairs vide dtd. 9th November 2021
Annexure – 2	Environment Management Plan for Operational Terminals
Annexure – 3	Details of First Aid Centre Facilities and Photographs
Annexure – 4	Fire safety NOC for Operational Terminals
Annexure – 5	Photograph showing Acoustic Enclosures of D.G Set
Annexure – 6	Environment Monitoring Report for the period of April'2021-September'2021
Annexure – 7	LED light and Solar PV Photographs
Annexure – 8	Acknowledgement of EC Compliance submitted for the period of Oct20-Mar21
Annexure – 9	Acknowledgement of Environment Statement (Form-V) for FY 2020-21
Annexure – 10	Layout of CCSI Airport
Annexure – 11	Aerodrome License issued by DGCA
Annexure – 12	Copy of CtE and CTE transferred order
Annexure – 13	Photographs of Barricaded Construction site
Annexure – 14	Compliance to the applicable points of MoEF&CC GSR 94(E) vide dtd 25th May 2018 for Construction and Demolition Activities
Annexure – 15	Photograph showing Construction related Environment Management practices
Annexure – 16	Copy of Soil Analysis Report
Annexure – 17	Copy of Aerodrome Emergency Plan and Disaster Management Plan for Operational Terminal
Annexure – 18	Fire Safety NOC of New Integrated Terminal Building
Annexure – 19	Copy of layout of proposed Rainwater Harvesting Structures
Annexure – 20	STP Process and Design Layout
Annexure – 21	EC transfer order issued by MoEF&CC for "Construction of new Integrated Terminal Building and allied Facilities" dtd. 17th June 2021

ANNEXURE – 1

adani

ALIAL/CAO/EC- Modification/21-22/0487 **Date: 13th August 2021**

To,
The Member Secretary (Infra-II)
The Ministry of Environment, Forest & Climate Change Indira Paryavaran Bhavan,
Jor Bagh Road,
New Delhi-110003

Subject: Transfer of Environment Clearance for the "**Proposed terminal Building at Amousi Airport**", Lucknow, Uttarpradesh from Airports Authority of India (AAI) to Adani Lucknow International Airport Limited (ALIAL)

Reference:

1. Environment Clearance vide F. No. 10-18/2007-IA.II1. dtd **23rd May 2012**
2. Transfer of Environment Clearance application with Proposal No. **IA/UP/MIS/216832/2021 dtd. 28th June 2021**

Dear Sir,

This application has reference to the Concession Agreement signed on 14th February 2020 for Operation, Maintenance, Management & Development of Chaudhary Charan Singh International Airport Lucknow between Airports Authority of India (AAI) and Adani Lucknow International Airport Limited (ALIAL). As per the above said Concession Agreement, with effect from the Commercial Operation Date (COD), i.e 2nd November 2020, ALIAL is responsible to comply to all the applicable conditions, as stipulated under the issued Environmental Clearance "**Proposed terminal Building at Amousi Airport**", Lucknow, Uttar Pradesh, issued by Ministry of Environment Forest & Climate Change, New Delhi (MoEF&CC).

Under the purview of EIA Notification, 2006, amended till date, paragraph 11, we would request for transfer of above said Environment Clearance in favour of ALIAL from AAI. Form -7, along with the required documents are being submitted, as a part of the application.

In view of above, requested to kindly consider Transfer of Environment Clearance in name of ALIAL.

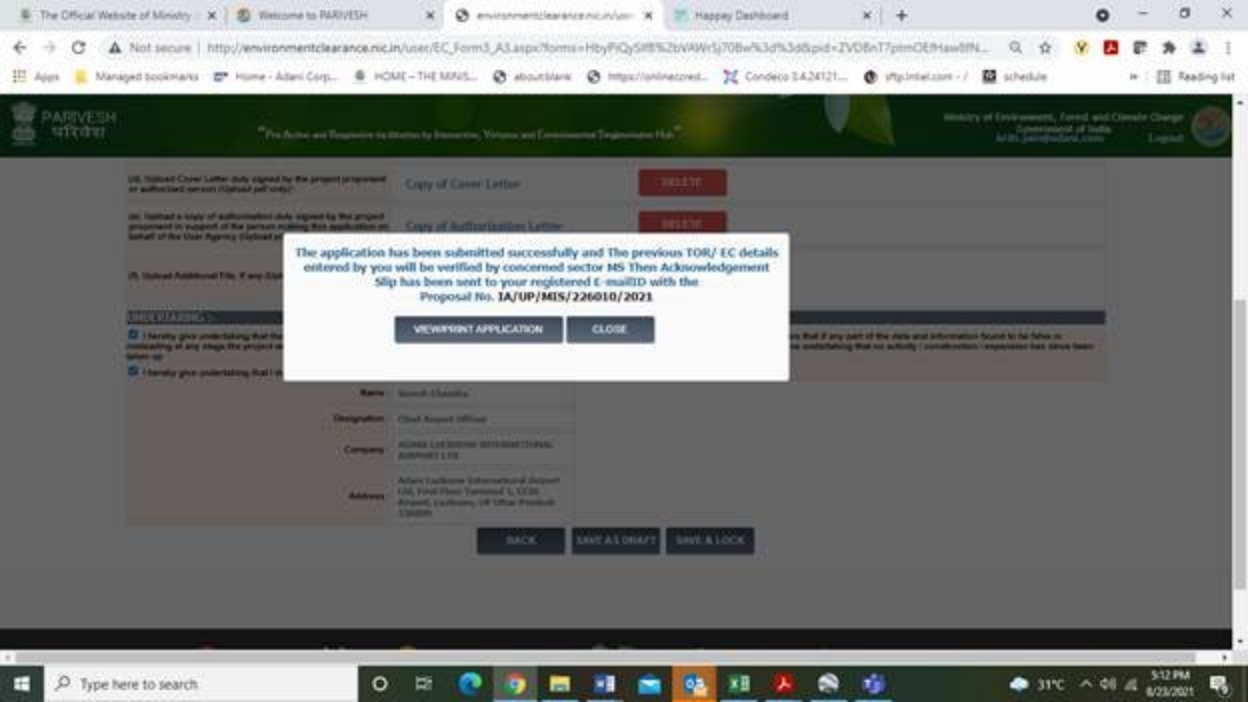
Yours Sincerely
For Adani Lucknow International Airport Limited,

Suresh Chandra Hota
Chief Airport Officer

Adani 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

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


The Official Website of Ministry
Welcome to PARIVESH
Happy Dashboard
Not secure | http://environmentclearance.nic.in/user/EC_Form3_A3.aspx?forms=HbyFlQySf8%2bVAWr5j70Bw%3d%3d&pid=ZVD8nT7ptmOEfHaw8fN...
Apps
Managed bookmarks
Home - Adani Corp...
HOME – THE MINIS...
aboutblank
https://onlinezred...
Codeco 3.4.24121...
sftp.intel.com - /
schedule
Reading list
PARIVESH
"Pro Active and Responsive facilitation by Interactive, Virtuous and Environment Friendly Hub."
Ministry of Environment, Forest and Climate Change
Government of India
Logout
Copy of Cover Letter
DELETE
Copy of Authorization Letter
DELETE
The application has been submitted successfully and The previous TOR/ EC details entered by you will be verified by concerned sector MS Then Acknowledgement Slip has been sent to your registered E -mailID with the Proposal No. IA/UP/MIS/226010/2021
VIEW/PRINT APPLICATION
CLOSE
Name
Designation
Chief Airport Officer
Company
Address
BACK
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SAVE & LOCK
Type here to search
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8/23/2021

ANNEXURE – 1a

GOVERNMENT OF INDIA
MINISTRY OF CORPORATE AFFAIRS

Office of the Registrar of Companies
RoC Bhavan, Opp Rupal Park Society Behind Ankur Bus Stop, Ahmedabad, Gujarat, India, 380013

Certificate of Incorporation pursuant to change of name
[Pursuant to rule 29 of the Companies (Incorporation) Rules, 2014]

Corporate Identification Number (CIN): U63030GJ2019PLC109814

I hereby certify that the name of the company has been changed from ADANI LUCKNOW INTERNATIONAL AIRPORT LIMITED to LUCKNOW INTERNATIONAL AIRPORT LIMITED with effect from the date of this certificate and that the company is limited by shares.

Company was originally incorporated with the name ADANI LUCKNOW INTERNATIONAL AIRPORT LIMITED.

Given under my hand at Ahmedabad this Ninth day of November two thousand twenty-one.

ANKITA LAHOTY

Registrar of Companies
RoC - Ahmedabad

Mailing Address as per record available in Registrar of Companies office:
LUCKNOW INTERNATIONAL AIRPORT LIMITED

Adani Corporate House, Shantigram, Near Vaishno Devi Circle, S. G. Highway, Khodiyar, Ahmedabad, Ahmedabad, Gujarat, India, 382421

ANNEXURE – 2

Environment Management Plan

Environment Management Plan implemented for Operation purpose

Air Quality Management

- DG sets are being proper acoustic enclosures & Periodic monitoring of DG set emissions are being carried out. **(Photographs of DG acoustics enclosed as Annexure-5 and DG emission report included in Monitoring Report enclosure as in Annexure-6)**
- Proper traffic management is being carried out to avoid, traffic Jam leading to vehicular emission
- Regularly Ambient Air Quality Monitoring is being carried out MoEF&CC/NABL accredited laboratory in accordance with NAAQS 2009 and all the parameters are observe to be well within the standards. (**Monitoring Reports enclosed as Annexure-6)**
- Battery/electrically charged vehicles would explore for usage at airport for ground service equipment and cargo so that air quality levels are maintained within the permissible limits
- Air and noise mitigation options are being implemented by defining the approach landing and take-off procedures in a manner so as to minimize impact. Accordingly, SID & STAR to minimize the impact in the funnel during operation of airport

Water Pollution Management

- Waste Water generated is being treated in STP and further is being recycled for usage in Horticulture / Landscaping areas inline to Consent from SPCB
- STP treated water is being analyzed through MoEF&CC/NABL accredited laboratory and all the parameters are observed to be within the standards. (**Monitoring Reports enclosed as Annexure-6)**
- Use of low flow fixtures and appliances for reduced water consumption such as low flush water closets are being implemented
- Use of sensor-based Urinals and Water taps for reduced water consumption.

Noise Pollution Management

- Control on the vehicular noise level by maintaining speed and vehicle conditions
- Standard instrument arrival and departure procedure is being implemented to minimize the noise levels within the permissible limits for the area falling in the funnel near the airport on either side
- DG sets are being proper acoustic enclosures. **(Photographs of DG acoustics enclosed as Annexure-5)**

- Regularly Noise Quality Monitoring is being carried out MoEF&CC/NABL accredited laboratory and all the parameters are observed to be well within the standards. (**Monitoring Reports enclosed as Annexure-6)**

Solid Waste Management

- The solid waste generated during operation phase is collected, segregated, dried, transported, disposed and handed over to authorized recyclers through agency
- Wastes is being segregated into bio-degradable and recyclable wastes at the source of generation and stored separately in appropriately designed wastes storage facilities
- Hazardous waste and other waste generated are being handled inline to applicable Rules and regulations.

Green Belt

- Green belt/Horticulture/landscape has been developed as per their contextual and functional requirements, and overall environmental and landscape planning approach. The proposed green space & landscape development is planned considering Bird menace, height restriction and restriction in operation areas.

Energy Conservation

- Airport has taken in to consideration energy conservation consideration wrt lighting levels, HVAC, comfort levels, natural ventilations and other system performance criteria.
- With the key objective of environmental sustainability through energy optimization, re-cycling of waste and water, reduction in carbon footprint, utilization of solar energy, natural daylighting along with other sustainable measures are planned for further consideration.

Indoor Air Quality

- Indoor Air Quality Monitoring is proposed and will be shared in Next Compliance Report.

Emergency Preparedness plan

- Dedicated Aerodrome Emergency Plan and Disaster Management plan is already in place and implemented. **(Copy of AEP and DMP attached as Annexure- 17)**

Environment Management Cell

- A Dedicated Environment Management cell is setup to ensure implementation and monitoring of environment safeguards.

ANNEXURE – 3

adani	Lucknow International Airport Limited	From : April'2021 To : September'2021
Annexure 3- First Aid Centre		

The following Facilities are available at the Lucknow International Airport Limited round the clock:

- Doctor
- Paramedics
- Ambulance
- First Aid
- Dressing
- Blood Pressure
- Blood Sugar
- Temperature
- Pulse Oxy Meter
- Breath Analyser
- Stretcher/Bed
- AED

Photographs showing Facilities of First Aid Centre

ANNEXURE – 4

प्रारूप-छ (संलग्नक-6)

अग्नि सुरक्षा प्रमाणपत्र (पूर्णता (कम्प्लीशन) अनापत्ति प्रमाणपत्र)

यूआईडी संख्या: UPFS/2020/23661/LCK/LUCKNOW/1500/CFO

दिनांक: 17-10-2020

प्रमाणित किया जाता है कि मैसर्स **Adani Lucknow International Airport Limited** (भवन/प्रतिष्ठान का नाम)पता **753,Tarminal-1, Airport Campus,Lucknow** तहसील - **Sarojini Nagar**, प्लाट एरिया **23600.00 sq.mt** , कुल कवर्ड एरिया **11599.70** (वर्ग मीटर), ब्लाकों की संख्या - **1**जिसमें

ब्लॉक/टावर	प्रत्येक ब्लाक में तलों की संख्या	बेसमेन्ट की संख्या	ऊँचाई
Terminal 1	2	0	9.90 mt.

है। भवन का अधिभोग मेसर्स **Adani Lucknow International Airport Limited** द्वारा किया जा रहा है। इनके द्वारा भवन में अग्नि निवारण एवं अग्नि सुरक्षा व्यवस्थाएं, एन0बी0सी0 एवं तत्संबंधी भारतीय मानक ब्यूरो के आई0एस0 के अनुसार भवन में स्थापित करायी गयी व्यवस्थाओं का निरीक्षण **अग्निशमन अधिकारी** द्वारा दिनांक **21-10-2020** को भवन स्वामी/भवन स्वामी के प्रतिनिधि श्री **Sunil Parate** के साथ किया गया। भवन में अधिस्थापित अग्नि सुरक्षा व्यवस्थाएं मानकों के अनुसार अधिस्थापित पायी गयी। अतः प्रश्नगत भवन को अग्नि सुरक्षा प्रमाणपत्र (फायर सेफ्टी सर्टिफिकेट) एन0बी0सी0 की अधिभोग श्रेणी **Assembly** के अन्तर्गत वैधता तिथि **23-10-2020** से **23-10-2023** तक **3** वर्षों के लिए इस शर्त के साथ निर्गत किया जा रहा है कि भवन में नियमानुसार स्थापित सभी अग्निशमन व्यवस्थाओं का अनुरक्षण करते हुए क्रियाशील बनाये रखा जायेगा। भवन में स्थापित की गयी अग्निशमन व्यवस्थाओं में पायी गयी कमी के कारण किसी भी घटना के लिए मेसर्स **Adani Lucknow International Airport Limited** अधिभोगी पूर्ण रूप से जिम्मेदार होगा/होगें। निर्गत अग्नि सुरक्षा प्रमाणपत्र का नवीनीकरण निर्धारित समयावधि

के अन्दर न कराये जाने पर निर्गत अग्नि सुरक्षा प्रमाणपत्र स्वतः ही निरस्त मान लिया जायेगा, जिसके लिए मेसर्स **Adani Lucknow International Airport Limited** अधिभोगी पूर्ण रूप से जिम्मेदार होगा/होगें।

Note : 01) प्रश्नगत भवन में जनहित के दृष्टिगत 02 अदद बाह्य स्टेयरकेस का निर्माण कराया जाना आवश्यक है।

"यह प्रमाण-पत्र आपके द्वारा प्रस्तुत अभिलेखों , सूचनाओं के आधार पर निर्गत किया जा रहा है । इनके असत्य पाए जाने पर निर्गत प्रमाण-पत्र मान्य नहीं होगा । यह प्रमाण-पत्र भूमि / भवन के स्वामित्व / अधिभोग को प्रमाणित नहीं करता है ।"

हस्ताक्षर (निर्गमन अधिकारी)

(मुख्य अग्निशमन अधिकारी)

Digitally Signed By

(VIJAY KUMAR SINGH)

[546A902FE4D42A5123E8A8F277613D624EF16119]

23-10-2020

निर्गत किये जाने का दिनांक : 23-10-2020
स्थान : LUCKNOW

प्रारूप-छ (संलग्नक-6)

अग्नि सुरक्षा प्रमाणपत्र (पूर्णता (कम्प्लीशन) अनापत्ति प्रमाणपत्र)

यूआईडी संख्या: UPFS/2021/33866/LCK/LUCKNOW/2024/CFO

दिनांक: 11-07-2021

प्रमाणित किया जाता है कि मैसर्स **ADANI LUCKNOW INTERNATIONAL AIRPORT LIMITED - TERMINAL - 2** (भवन/प्रतिष्ठान का नाम)पता **CHAUDHARI CHARAN SINGH INTERNATIONAL AIRPORT,AMAUSI,LUCKNOW** तहसील - **SAROJANINAGAR**, प्लाट एरिया **88900.00 sq.mt** , कुल कवर्ड एरिया **22578.30** (वर्ग मीटर), ब्लाकों की संख्या - **1**जिसमें

ब्लॉक/टावर	प्रत्येक ब्लाक में तलों की संख्या	बेसमेन्ट की संख्या	ऊँचाई
TERMINAL 2	2	1	18.50 mt.

है। भवन का अधिभोग मेसर्स **ADANI LUCKNOW INTERNATIONAL AIRPORT LIMITED - TERMINAL - 2** द्वारा किया जा रहा है। इनके द्वारा भवन में अग्नि निवारण एवं अग्नि सुरक्षा व्यवस्थाएं, एन0बी0सी0 एवं तत्संबंधी भारतीय मानक ब्यूरो के आई0एस0 के अनुसार भवन में स्थापित करायी गयी व्यवस्थाओं का निरीक्षण **अग्निशमन अधिकारी** द्वारा दिनांक **15-07-2021** को भवन स्वामी/भवन स्वामी के प्रतिनिधि श्री **ABHISHEK JAYSAWAL 8795747000** के साथ किया गया। भवन में अधिस्थापित अग्नि सुरक्षा व्यवस्थाएं मानकों के अनुसार अधिस्थापित पायी गयी। अतः प्रसगत भवन को अग्नि सुरक्षा प्रमाणपत्र (फायर सेफ्टी सर्टिफिकेट) एन0बी0सी0 की अधिभोग श्रेणी **Assembly** के अन्तर्गत वैधता तिथि **16-07-2021** से **15-07-2024** तक **3** वर्षों के लिए इस शर्त के साथ निर्गत किया जा रहा है कि भवन में नियमानुसार स्थापित सभी अग्निशमन व्यवस्थाओं का अनुरक्षण करते हुए क्रियाशील बनाये रखा जायेगा। भवन में स्थापित की गयी अग्निशमन व्यवस्थाओं में पायी गयी कमी के कारण किसी भी घटना के लिए मेसर्स **ADANI LUCKNOW INTERNATIONAL AIRPORT LIMITED - TERMINAL - 2** अधिभोगी पूर्ण रूप से जिम्मेदार होगा/होगें। निर्गत अग्नि सुरक्षा प्रमाणपत्र का नवीनीकरण निर्धारित समयावधि के अन्दर न कराये जाने पर निर्गत अग्नि सुरक्षा प्रमाणपत्र स्वतः ही निरस्त मान लिया जायेगा, जिसके लिए मेसर्स **ADANI LUCKNOW INTERNATIONAL AIRPORT LIMITED - TERMINAL - 2** अधिभोगी पूर्ण रूप से जिम्मेदार होगा/होगें।

"यह प्रमाण-पत्र आपके द्वारा प्रस्तुत अभिलेखों , सूचनाओं के आधार पर निर्गत किया जा रहा है । इसके असत पाए जाने पर निर्गत प्रमाण-पत्र मान्य नहीं होगा । यह प्रमाण-पत्र भूमि / भवन के स्वामित्व / अधिभोग को प्रमाणित नहीं करता है ।"

हस्ताक्षर (निर्गमन अधिकारी)

(मुख्य अग्निशमन अधिकारी)

निर्गत किये जाने का दिनांक : **16-07-2021**
स्थान : **LUCKNOW**

Digitally Signed By
(VIJAY KUMAR SINGH)
[546A902FE4D42A512388A8F27613D624EF16119]
16-07-2021

ANNEXURE – 5

adani	Lucknow International Airport Limited	From : April'2021 To : September'2021

Annexure 5 – DG set with acoustic Enclosure

ANNEXURE – 6

Vimta Labs Limited
Registered Office
142, IDA Phase II, Cherlapally
Hyderabad-500 051,Telangana, India
T : +91 40 2726 4141
F : +91 40 2726 3657

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Driven by Quality. Inspired by Science.

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

Report Number	:	VLL/VLS/21/01164/001
Issued Date	:	2021.05.04
P. Order Ref	:	5700291869
P.O. Date	:	13.10.2020

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 2021**
Test Required	:	PM_{10}, $PM_{2.5}$, SO_2, and NO_2.
Sample collected by Vimta labs ltd		

TEST REPORT

Location Code:AAQ-1	RESULTS ($\mu g/m^3$)			
Date of Sampling	**Particulates Less than 2.5 microns as $PM_{2.5}$**	**Particulates Less than 10 microns as PM_{10}**	**Sulfur Dioxide as SO_2**	**Nitrogen Dioxide of as NO_2**
05.04.2021	26.2	52.0	12.6	15.5
06.04.2021	24.9	53.2	13.2	16.1
12.04.2021	25.2	54.0	11.6	14.5
13.04.2021	22.9	52.1	12.5	15.3
19.04.2021	24.8	54.2	13.5	16.8
20.04.2021	22.6	52.4	12.2	15.7
26.04.2021	23.1	51.8	14.0	17.0
27.04.2021	24.4	53.5	12.5	14.7
Minimum	**22.6**	**51.8**	**11.6**	**14.5**
Maximum	**26.2**	**54.2**	**14.0**	**17.0**
Mean	**24.3**	**52.9**	**12.8**	**15.7**
98%le	**26.1**	**54.2**	**13.9**	**17.0**
NAAQ Standard	**60**	**100**	**80**	**80**

Dr. SubbaReddy Mallampati
Group Leader-Environment

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AMAUSI, LUCKNOW,
UTTARPRADESH-226009

Report Number	:	VLL/VLS/21/01164/002
Issued Date	:	2021.05.04
P. Order Ref	:	5700291869
P.O. Date	:	13.10.2020

SAMPLE PARTICULARS : AMBIENT AIR QUALITY MONITORING at 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 2021**
Test Required	:	PM_{10}, $PM_{2.5}$, SO_2, and NO_2,
Sample collected by Vimta labs ltd		

TEST REPORT

Location Code:AAQ-2	RESULTS (µg/m³)			
Date of Sampling	**Particulates Less than 2.5 microns as $PM_{2.5}$**	**Particulates Less than 10 microns as PM_{10}**	**Sulfur Dioxide as SO_2**	**Nitrogen Dioxide of as NO_2**
05.04.2021	23.8	60.3	13.8	16.1
06.04.2021	28.2	55.7	12.4	14.6
12.04.2021	26.9	58.3	14.7	18.1
13.04.2021	24.5	54.6	12.0	14.2
19.04.2021	27.9	58.5	13.7	17.3
20.04.2021	24.3	55.3	12.2	14.6
26.04.2021	28.1	61.8	11.8	17.9
27.04.2021	27.5	59.2	13.6	15.3
Minimum	**23.8**	**54.6**	**11.8**	**14.2**
Maximum	**28.2**	**61.8**	**14.7**	**18.1**
Mean	**26.4**	**58.0**	**13.0**	**16.0**
98%le	**28.2**	**61.6**	**14.6**	**18.1**
NAAQ Standard	**60**	**100**	**80**	**80**

Dr. SubbaReddy Mallampati
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AMAUSI, LUCKNOW,
UTTARPRADESH-226009

Report Number	:	VLL/VLS/21/01164/003
Issued Date	:	2021.05.04
P. Order Ref	:	5700291869
P.O. Date	:	13.10.2020

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	:	**APRIL 2021**
Test Required	:	PM_{10}, $PM_{2.5}$, SO_2, and NO_2,
Sample collected by Vimta labs ltd		

TEST REPORT

Location Code:AAQ-3	RESULTS (µg/m³)			
Date of Sampling	**Particulates Less than 2.5 microns as $PM_{2.5}$**	**Particulates Less than 10 microns as PM_{10}**	**Sulfur Dioxide as SO_2**	**Nitrogen Dioxide of as NO_2**
05.04.2021	24.5	54.9	11.8	14.2
06.04.2021	23.2	57.2	12.0	15.2
12.04.2021	22.1	53.9	11.8	14.7
13.04.2021	24.5	60.3	13.3	15.2
19.04.2021	25.1	57.9	12.5	16.3
20.04.2021	22.9	58.2	11.8	14.4
26.04.2021	24.7	54.2	13.1	15.6
27.04.2021	25.2	52.4	12.5	14.7
Minimum	**22.1**	**52.4**	**11.8**	**14.2**
Maximum	**25.2**	**60.3**	**13.3**	**16.3**
Mean	**24.0**	**56.1**	**12.4**	**15.0**
98%le	**25.2**	**60.0**	**13.3**	**16.2**
NAAQ Standard	**60**	**100**	**80**	**80**

Dr. SubbaReddy Mallampati
Group Leader-Environment

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AMAUSI, LUCKNOW,
UTTARPRADESH-226009

Report Number	:	VLL/VLS/21/01164/004
Issued Date	:	2021.05.04
P. Order Ref	:	5700291869
P.O. Date	:	13.10.2020

SAMPLE PARTICULARS : AMBIENT AIR QUALITY MONITORING @ Near Terminal-2 Building

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 2021**
Test Required	:	PM_{10}, $PM_{2.5}$, SO_2, and NO_2,
Sample collected by Vimta labs ltd		

TEST REPORT

Location Code:AAQ-4	RESULTS (µg/m³)			
Date of Sampling	**Particulates Less than 2.5 microns as $PM_{2.5}$**	**Particulates Less than 10 microns as PM_{10}**	**Sulfur Dioxide as SO_2**	**Nitrogen Dioxide of as NO_2**
05.04.2021	26.4	59.3	13.3	16.4
06.04.2021	28.8	63.5	12.2	15.5
12.04.2021	30.2	66.6	12.5	14.7
13.04.2021	25.4	60.4	12.8	15.7
19.04.2021	29.1	59.3	13.3	16.2
20.04.2021	25.4	60.7	12.7	15.9
26.04.2021	30.6	56.6	12.4	14.1
27.04.2021	28.6	57.0	13.6	15.2
Minimum	**25.4**	**56.6**	**12.2**	**14.1**
Maximum	**30.6**	**66.6**	**13.6**	**16.4**
Mean	**28.1**	**60.4**	**12.9**	**15.5**
98%le	**30.5**	**66.2**	**13.6**	**16.4**
NAAQ Standard	**60**	**100**	**80**	**80**

Dr. SubbaReddy Mallampati
Group Leader-Environment

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ISSUED TO:

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

Report Number	:	VLL/VLS/21/01164/005
Issued Date	:	2021.05.04
P. Order Ref	:	5700291869
P.O. Date	:	13.10.2020

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 2021**
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)	07.04.2021	55.8	50.5
2	Top of SCADA Building	14.04.2021	58.5	51.5
3	Near Terminal-1 Building	21.04.2021	55.3	50.4
4	Near Terminal-2 Building	28.04.2021	56.2	51.3
Noise Standards			**75.0**	**70.0**

Dr. SubbaReddy Mallampati
Group Leader-Environment

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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

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

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

Report Number	:	VLL/VLS/21/02054/001
Issued Date	:	2021.06.07
P. Order Ref	:	5700291869
P.O. Date	:	13.10.2020

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 2021**
Test Required	:	PM_{10}, $PM_{2.5}$, SO_2, and NO_2.

Sample collected by Vimta labs ltd

TEST REPORT

Location Code:AAQ-1	RESULTS (µg/m³)			
Date of Sampling	**Particulates Less than 2.5 microns as $PM_{2.5}$**	**Particulates Less than 10 microns as PM_{10}**	**Sulphur Dioxide as SO_2**	**Nitrogen Dioxide of as NO_2**
03.05.2021	24.9	50.7	11.4	14.2
04.05.2021	23.6	55.0	12.2	15.1
10.05.2021	25.3	52.7	13.6	16.5
11.05.2021	21.6	50.8	11.7	14.0
17.05.2021	23.5	53.3	12.4	15.5
18.05.2021	24.3	51.1	13.4	16.6
24.05.2021	22.6	53.2	12.8	14.6
25.05.2021	25.1	55.6	13.0	15.7
Minimum	**21.6**	**50.7**	**11.4**	**14.0**
Maximum	**25.3**	**55.6**	**13.6**	**16.6**
Mean	**23.9**	**52.8**	**12.6**	**15.3**
98%le	**25.3**	**55.5**	**13.6**	**16.6**
NAAQ Standard	**60**	**100**	**80**	**80**

Dr. SubbaReddy Mallampati
Group Leader-Environment

Vimta Labs Limited
Registered Office
142, IDA Phase II, Cherlapally
Hyderabad-500 051,Telangana, India
T : +91 40 2726 4141
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/21/02054/002
Issued Date	:	2021.06.07
P. Order Ref	:	5700291869
P.O. Date	:	13.10.2020

SAMPLE PARTICULARS : AMBIENT AIR QUALITY MONITORING at 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 2021**
Test Required	:	PM_{10}, $PM_{2.5}$, SO_2, and NO_2,
Sample collected by Vimta labs ltd		

TEST REPORT

Location Code:AAQ-2	RESULTS (µg/m³)			
Date of Sampling	**Particulates Less than 2.5 microns as $PM_{2.5}$**	**Particulates Less than 10 microns as PM_{10}**	**Sulphur Dioxide as SO_2**	**Nitrogen Dioxide of as NO_2**
03.05.2021	22.5	59.0	12.6	14.8
04.05.2021	26.5	54.4	11.2	15.1
10.05.2021	24.3	57.0	13.5	16.8
11.05.2021	26.8	53.3	11.2	13.8
17.05.2021	23.7	57.2	12.5	15.7
18.05.2021	25.5	54.0	13.8	16.5
24.05.2021	26.8	60.5	13.1	15.7
25.05.2021	26.2	57.9	12.4	14.0
Minimum	**22.5**	**53.3**	**11.2**	**13.8**
Maximum	**26.8**	**60.5**	**13.8**	**16.8**
Mean	**25.3**	**56.7**	**12.5**	**15.3**
98%le	**26.8**	**60.3**	**13.8**	**16.8**
NAAQ Standard	**60**	**100**	**80**	**80**

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Group Leader-Environment

Vimta Labs Limited
Registered Office
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Issued Date	:	2021.06.07
P. Order Ref	:	5700291869
P.O. Date	:	13.10.2020

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 2021**
Test Required	:	PM_{10}, $PM_{2.5}$, SO_2, and NO_2,
Sample collected by Vimta labs ltd		

TEST REPORT

Location Code:AAQ-3	RESULTS (µg/m³)			
Date of Sampling	**Particulates Less than 2.5 microns as $PM_{2.5}$**	**Particulates Less than 10 microns as PM_{10}**	**Sulphur Dioxide as SO_2**	**Nitrogen Dioxide of as NO_2**
03.05.2021	22.6	51.5	12.1	15.3
04.05.2021	25.1	54.4	11.6	14.5
10.05.2021	23.2	56.7	12.2	15.3
11.05.2021	22.7	58.3	12.1	14.6
17.05.2021	24.3	55.3	11.3	13.9
18.05.2021	25.6	56.9	13.1	15.7
24.05.2021	22.4	51.7	12.2	14.3
25.05.2021	23.5	55.3	11.3	14.0
Minimum	**22.4**	**51.5**	**11.3**	**13.9**
Maximum	**25.6**	**58.3**	**13.1**	**15.7**
Mean	**23.7**	**55.0**	**12.0**	**14.7**
98%le	**25.5**	**58.1**	**13.0**	**15.6**
NAAQ Standard	**60**	**100**	**80**	**80**

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Group Leader-Environment

Vimta Labs Limited
Registered Office
142, IDA Phase II, Cherlapally
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T : +91 40 2726 4141
F : +91 40 2726 3657

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Issued Date	:	2021.06.07
P. Order Ref	:	5700291869
P.O. Date	:	13.10.2020

SAMPLE PARTICULARS : AMBIENT AIR QUALITY MONITORING @ Near Terminal-2 Building

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 2021**
Test Required	:	PM_{10}, $PM_{2.5}$, SO_2, and NO_2.
Sample collected by Vimta labs ltd		

TEST REPORT

Location Code:AAQ-4	RESULTS (µg/m³)			
Date of Sampling	**Particulates Less than 2.5 microns as $PM_{2.5}$**	**Particulates Less than 10 microns as PM_{10}**	**Sulphur Dioxide as SO_2**	**Nitrogen Dioxide of as NO_2**
03.05.2021	28.4	56.5	11.6	13.8
04.05.2021	25.8	61.4	13.1	15.3
10.05.2021	27.9	64.3	11.6	13.4
11.05.2021	26.5	55.7	13.3	15.9
17.05.2021	27.8	62.5	12.2	14.9
18.05.2021	28.1	58.8	13.2	15.3
24.05.2021	25.7	63.4	11.9	13.9
25.05.2021	26.4	60.4	12.4	14.5
Minimum	**25.7**	**55.7**	**11.6**	**13.4**
Maximum	**28.4**	**64.3**	**13.3**	**15.9**
Mean	**27.1**	**60.4**	**12.4**	**14.6**
98%le	**28.4**	**64.2**	**13.3**	**15.8**
NAAQ Standard	**60**	**100**	**80**	**80**

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Group Leader-Environment

Vimta Labs Limited
Registered Office
142, IDA Phase II, Cherlapally
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Issued Date	:	2021.06.07
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P.O. Date	:	13.10.2020

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 2021**
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)	11.05.2021	54.1	48.8
2	Top of SCADA Building	12.05.2021	57.0	52.4
3	Near Terminal-1 Building	13.05.2021	56.8	51.9
4	Near Terminal-2 Building	14.05.2021	57.6	52.6
Noise Standards			**75.0**	**70.0**

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Group Leader-Environment

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Registered Office
142, IDA Phase II, Cherlapally
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T : +91 40 2726 4141
F : +91 40 2726 3657

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Report Number	:	VLL/VLS/21/02054/006
Issued Date	:	2021.06.07
P. Order Ref	:	5700291869
P.O. Date	:	13.10.2020

SAMPLE PARTICULARS	:	**STP OUTLET WASTEWATER**
Frequency Of Sampling	:	One Grab sample in a Month
Month of Sampling	:	**MAY 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	:	19.05.2021
Analysis Start Date	:	22.05.2021
Analysis Completion Date	:	29.05.2021
Sample collected by Vimta Labs Ltd.,		

TEST REPORT

Sr.No	Parameters	Method Adopted	UoM	Results	CPCB Standard
1	pH	IS:3025 P-11	--	7.6	5.5 - 9.0
2	Total Suspended Solids	IS:3025 P-16	mg/L	46	100
3	Total Dissolved Solids	IS:3025 P-16	mg/L	477	2100
4	Total Nitrogen	APHA 4500-B	mg/L	2.4	10
5	Chemical Oxygen Demand	APHA 5220B	mg/L	75	250
6	Biological Oxygen Demand at 27°C, 3 days	IS:3025 P-44	mg/L	15	30
7	Oil and Grease	APHA 5520-C	mg/L	<1.0	10
8	Ammonical Nitrogen	APHA 4500-F	mg/L	<0.1	5

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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

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	^0C	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/Nm3		236.41	165.43	187.25	177.51	140.63	NOx + 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)**

Dr. SubbaReddy Mallampati
Group Leader-Environment

Vimta Labs Limited
Registered Office
142, IDA Phase II, Cherlapally
Hyderabad-500 051,Telangana, India
T : +91 40 2726 4141
F : +91 40 2726 3657

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Report Number	:	VLL/VLS/21/02413/002
Issued Date	:	2021.06.11
P. Order Ref	:	5700291869
P. Order Date	:	13.10.2020

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

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	-	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	^0C	USEPA M-2	184	201	--
5	Velocity of the Flue gas	m/Sec		8.97	10.19	--
6	Volumetric Flow rate	Nm^3/hr		3231	3543	--
Chemical Parameters						
7	Sulphur Dioxide	mg/Nm^3	USEPA CTM30&34	46	54	--
8	Carbon Monoxide @ 15% O2	mg/Nm^3		134.09	116.63	≤ 3.5
9	Carbon Monoxide @ 15% O2	gr/kw-hr		**1.354**	**1.291**	
10	Oxides of Nitrogen@ 15% O2	mg/Nm3		201.93	177.51	NOx + HC ≤ 4.0
	Oxides of Nitrogen@ 15% O2	gr/kw-hr		**2.039**	**1.965**	
11	Hydro Carbons as CH4@ 15% O2	mg/Nm^3		33.52	41.16	
	Hydro Carbons as CH4@ 15% O2	gr/kw-hr		**0.338**	**0.456**	
12	Particulate Matter@15% O2	mg/Nm^3	USEPA M-5	14.30	15.09	≤ 0.2
	Particulate Matter @ 15% O2	gr/kw-hr		**0.144**	**0.167**	

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

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Group Leader-Environment

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142, IDA Phase II, Cherlapally
Hyderabad-500 051,Telangana, India
T : +91 40 2726 4141
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Issued Date	:	2021.06.11
P. Order Ref	:	5700291869
P. Order Date	:	13.10.2020

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	^0C	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/Nm3	USEPA CTM30&34	201.93	191.60	NOx + HC ≤ 4.0
	Oxides of Nitrogen@ 15% O2	gr/kw-hr		**3.140**	**2.789**	
11	Hydro Carbons as CH4@ 15% O2	mg/Nm^3	USEPA CTM30&34	40.23	36.02	
	Hydro Carbons as CH4@ 15% O2	gr/kw-hr		**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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Group Leader-Environment

Vimta Labs Limited
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P. Order Ref	:	5700291869
P. Order Date	:	13.10.2020

SAMPLE PARTICULARS	:	**DIESEL GENERATOR EMISSION MONITORING**
PLACE OF DG SET INSTALLED	:	**CCR office**
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	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	^0C	USEPA M-2	264	244	--
5	Velocity of the Flue gas	m/Sec		12.48	12.2	--
6	Volumetric Flow rate	Nm^3/hr		3855	3933	--
Chemical Parameters						
7	Sulphur Dioxide	mg/Nm^3	USEPA CTM30&34	61	58	--
8	Carbon Monoxide @ 15% O2	mg/Nm^3		119.34	105.04	≤ 3.5
9	Carbon Monoxide @ 15% O2	gr/kw-hr		**1.438**	**1.291**	
10	Oxides of Nitrogen@ 15% O2	mg/Nm3		127.77	82.61	NOx + HC ≤ 4.0
	Oxides of Nitrogen@ 15% O2	gr/kw-hr		**1.539**	**1.015**	
11	Hydro Carbons as CH4@ 15% O2	mg/Nm^3		32.18	23.47	
	Hydro Carbons as CH4@ 15% O2	gr/kw-hr		**0.388**	**0.288**	
12	Particulate Matter@15% O2	mg/Nm^3	USEPA M-5	15.02	14.30	≤ 0.2
	Particulate Matter @ 15% O2	gr/kw-hr		**0.181**	**0.176**	

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

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Report Number : VLL/VLS/21/02413/005
Issued Date : 2021.06.11
P. Order Ref : 5700291869
P. Order Date : 13.10.2020

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	^0C	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/Nm3		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)**

Dr. SubbaReddy Mallampati
Group Leader-Environment

Vimta Labs Limited
Registered Office
142, IDA Phase II, Cherlapally
Hyderabad-500 051,Telangana, India
T : +91 40 2726 4141
F : +91 40 2726 3657

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AMAUSI, LUCKNOW,
UTTARPRADESH-226009

Report Number	:	VLL/VLS/21/02413/006
Issued Date	:	2021.06.11
P. Order Ref	:	5700291869
P.O. Date	:	13.10.2020

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
Month of Monitoring	:	**JUNE 2021**
Test Required	:	**Sound Pressure Levels in Off and On Conditions**
Sample collected by Vimta labs ltd		

TEST REPORT

Sr.No	DG Set Code& Capacity	Location of DG Installed	Sound Pressure Level in d(B)A.	
			Background Noise Level	DG Running Noise Level
01	DG Set-1 750 KVA	SCADA Power House	55.9	68.9
02	DG Set-2 750 KVA		56.6	69.1
03	DG Set-3 750 KVA		57.1	68.6
04	DG Set-4 750 KVA		56.1	68.2
05	DG Set-5 750 KVA		56.9	70.2
06	DG Set-1 320 KVA	DGCA office	53.3	69.2
07	DG Set-2 320 KVA		55.1	68.4
08	DG Set-1 200 KVA	ATC Technical Block	51.6	70.6
09	DG Set-2 200 KVA		51.8	69.8
10	DG Set-1 320 KVA	CCR Room	53.4	67.8
11	DG Set-2 320 KVA		54.8	69.1
12	DG Set-1 200 KVA	MSSR Building	56.1	64.7
DG Noise Standard up to 1000 KVA				**75.0**

Dr. SubbaReddy Mallampati
Group Leader-Environment

Vimta Labs Limited
Registered Office
142, IDA Phase II, Cherlapally
Hyderabad-500 051,Telangana, India
T : +91 40 2726 4141
F : +91 40 2726 3657

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

Report Number	:	VLL/VLS/21/02413/007
Issued Date	:	2021.07.05
P. Order Ref	:	5700291869
P.O. Date	:	13.10.2020

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 2021**
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)	01.06.2021	52.5	47.2
2	Top of SCADA Building	10.06.2021	55.4	50.8
3	Near Terminal-1 Building	14.06.2021	58.3	53.4
4	Near Terminal-2 Building	22.06.2021	59.5	54.3
Noise Standards			**75.0**	**70.0**

Dr. SubbaReddy Mallampati
Group Leader-Environment

Vimta Labs Limited
Registered Office
142, IDA Phase II, Cherlapally
Hyderabad-500 051,Telangana, India
T : +91 40 2726 4141
F : +91 40 2726 3657

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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

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
Registered Office
142, IDA Phase II, Cherlapally
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T : +91 40 2726 4141
F : +91 40 2726 3657

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(CHAUDHARY CHARAN SINGH INTERNATIONAL AIRPORT),
AMAUSI, LUCKNOW,
UTTARPRADESH-226009

Report Number	:	VLL/VLS/21/02413/009
Issued Date	:	2021.07.06
P. Order Ref	:	5700291869
P.O. Date	:	13.10.2020

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 2021**
Test Required	:	PM_{10}, $PM_{2.5}$, SO_2, and NO_2.
Sample collected by Vimta labs ltd		

TEST REPORT

Location Code:AAQ-1	RESULTS ($\mu g/m^3$)			
Date of Sampling	**Particulates Less than 2.5 microns as $PM_{2.5}$**	**Particulates Less than 10 microns as PM_{10}**	**Sulphur Dioxide as SO_2**	**Nitrogen Dioxide of as NO_2**
01.06.2021	26.3	52.6	12.6	15.0
02.06.2021	25.0	56.9	13.4	16.2
07.06.2021	22.6	51.7	11.8	13.8
08.06.2021	25.1	52.7	12.9	14.9
14.06.2021	24.9	55.2	13.1	15.3
15.06.2021	25.7	52.4	12.5	14.7
22.06.2021	24.0	55.1	11.8	15.5
23.06.2021	23.8	52.6	12.8	14.8
Minimum	**22.6**	**51.7**	**11.8**	**13.8**
Maximum	**26.3**	**56.9**	**13.4**	**16.2**
Mean	**24.7**	**53.7**	**12.6**	**15.0**
98%le	**26.2**	**56.7**	**13.4**	**16.1**
NAAQ Standard	**60**	**100**	**80**	**80**

Dr. SubbaReddy Mallampati
Group Leader-Environment

Vimta Labs Limited
Registered Office
142, IDA Phase II, Cherlapally
Hyderabad-500 051,Telangana, India
T : +91 40 2726 4141
F : +91 40 2726 3657

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UTTARPRADESH-226009

Report Number	:	VLL/VLS/21/02413/010
Issued Date	:	2021.07.06
P. Order Ref	:	5700291869
P.O. Date	:	13.10.2020

SAMPLE PARTICULARS : AMBIENT AIR QUALITY MONITORING at 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 2021**
Test Required	:	PM_{10}, $PM_{2.5}$, SO_2, and NO_2,

Sample collected by Vimta labs ltd

TEST REPORT

Location Code:AAQ-2	RESULTS (µg/m³)			
Date of Sampling	**Particulates Less than 2.5 microns as $PM_{2.5}$**	**Particulates Less than 10 microns as PM_{10}**	**Sulphur Dioxide as SO_2**	**Nitrogen Dioxide of as NO_2**
01.06.2021	24.1	61.6	13.5	15.7
02.06.2021	27.1	56.3	12.4	14.2
07.06.2021	23.7	55.3	11.7	13.6
08.06.2021	27.2	58.3	12.4	14.7
14.06.2021	25.1	60.5	13.3	15.6
15.06.2021	22.9	55.9	12.4	14.4
22.06.2021	24.8	62.4	11.5	13.9
23.06.2021	23.6	60.2	13.6	16.3
Minimum	**22.9**	**55.3**	**11.5**	**13.6**
Maximum	**27.2**	**62.4**	**13.6**	**16.3**
Mean	**24.8**	**58.8**	**12.6**	**14.8**
98%le	**27.2**	**62.3**	**13.6**	**16.2**
NAAQ Standard	**60**	**100**	**80**	**80**

Dr. SubbaReddy Mallampati
Group Leader-Environment

Vimta Labs Limited
Registered Office
142, IDA Phase II, Cherlapally
Hyderabad-500 051,Telangana, India
T : +91 40 2726 4141
F : +91 40 2726 3657

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(CHAUDHARY CHARAN SINGH INTERNATIONAL AIRPORT),
AMAUSI, LUCKNOW,
UTTARPRADESH-226009

Report Number	:	VLL/VLS/21/02413/011
Issued Date	:	2021.07.06
P. Order Ref	:	5700291869
P.O. Date	:	13.10.2020

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 2021**
Test Required	:	PM_{10}, $PM_{2.5}$, SO_2, and NO_2,
Sample collected by Vimta labs ltd		

TEST REPORT

Location Code:AAQ-3	RESULTS (µg/m³)			
Date of Sampling	**Particulates Less than 2.5 microns as $PM_{2.5}$**	**Particulates Less than 10 microns as PM_{10}**	**Sulphur Dioxide as SO_2**	**Nitrogen Dioxide of as NO_2**
01.06.2021	25.1	54.5	13.3	15.5
02.06.2021	23.5	57.1	12.8	14.1
07.06.2021	22.8	58.6	13.4	15.3
08.06.2021	24.1	60.2	12.5	14.6
14.06.2021	26.1	52.5	12.5	14.8
15.06.2021	24.9	58.8	11.7	13.6
22.06.2021	25.1	53.6	13.4	15.2
23.06.2021	26.0	57.2	12.5	14.8
Minimum	**22.8**	**52.5**	**11.7**	**13.6**
Maximum	**26.1**	**60.2**	**13.4**	**15.5**
Mean	**24.7**	**56.6**	**12.8**	**14.7**
98%le	**26.1**	**60.0**	**13.4**	**15.5**
NAAQ Standard	**60**	**100**	**80**	**80**

Dr. SubbaReddy Mallampati
Group Leader-Environment

Vimta Labs Limited
Registered Office
142, IDA Phase II, Cherlapally
Hyderabad-500 051,Telangana, India
T : +91 40 2726 4141
F : +91 40 2726 3657

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(CHAUDHARY CHARAN SINGH INTERNATIONAL AIRPORT),
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UTTARPRADESH-226009

Report Number	:	VLL/VLS/21/02054/012
Issued Date	:	2021.07.06
P. Order Ref	:	5700291869
P.O. Date	:	13.10.2020

SAMPLE PARTICULARS : AMBIENT AIR QUALITY MONITORING @ Near Terminal-2 Building

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 2021**
Test Required	:	PM_{10}, $PM_{2.5}$, SO_2, and NO_2,
Sample collected by Vimta labs ltd		

TEST REPORT

Location Code:AAQ-4	RESULTS (µg/m³)			
Date of Sampling	**Particulates Less than 2.5 microns as $PM_{2.5}$**	**Particulates Less than 10 microns as PM_{10}**	**Sulphur Dioxide as SO_2**	**Nitrogen Dioxide of as NO_2**
01.06.2021	24.6	58.4	12.8	14.7
02.06.2021	27.2	63.3	11.6	13.8
07.06.2021	24.5	66.2	12.8	14.3
08.06.2021	27.4	58.1	11.5	13.7
14.06.2021	25.5	64.4	13.4	15.4
15.06.2021	24.6	61.3	12.4	14.6
22.06.2021	27.1	56.6	13.1	15.5
23.06.2021	24.3	62.3	11.9	13.9
Minimum	**24.3**	**56.6**	**11.5**	**13.7**
Maximum	**27.4**	**66.2**	**13.4**	**15.5**
Mean	**25.7**	**61.3**	**12.4**	**14.5**
98%le	**27.4**	**65.9**	**13.4**	**15.5**
NAAQ Standard	**60**	**100**	**80**	**80**

Dr. SubbaReddy Mallampati
Group Leader-Environment

Vimta Labs Limited
Registered Office
142, IDA Phase II, Cherlapally
Hyderabad-500 051,Telangana, India
T : +91 40 2726 4141
F : +91 40 2726 3657

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UTTARPRADESH-226009

Report Number	:	VLL/VLS/21/02413/013
Issued Date	:	2021.07.06
P. Order Ref	:	5700291869
P.O. Date	:	13.10.2020

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

Frequency Of Sampling	:	Quarterly Once for Each DG Set
Type of Measurement	:	SPOT
Month of Monitoring	:	**JUNE 2021**
Test Required	:	**Sound Pressure Levels in Off and On Conditions**
Sample collected by Vimta labs ltd		

TEST REPORT

Sr.No	DG Set Code& Capacity	Location of DG Installed	Sound Pressure Level in d(B)A.	
			Background Noise Level	DG Running Noise Level
01	DG Set-1 750 KVA	SCADA Power House	56.7	71.6
02	DG Set-2 750 KVA		57.4	73.5
03	DG Set-3 750 KVA		58.5	72.7
04	DG Set-4 750 KVA		57.7	71.5
05	DG Set-5 750 KVA		59.0	73.3
06	DG Set-1 320 KVA	DGCA office	55.6	72.4
07	DG Set-2 320 KVA		57.3	73.1
08	DG Set-1 200 KVA	ATC Technical Block	52.4	72.1
09	DG Set-2 200 KVA		53.0	70.8
10	DG Set-1 200 KVA	MSSR Building	54.6	70.1
11	DG Set-1 320 KVA	CCR Office	53.4	72.2
12	DG Set-2 320 KVA		51.7	71.5
DG Noise Standard up to 1000 KVA				**75.0**

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Group Leader-Environment

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Registered Office
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UTTARPRADESH-226009

Report Number : VLL/VLS/21/02413/014
Issued Date : 2021.07.06
P. Order Ref : 5700291869
P.O. Date : 13.10.2020

SAMPLE PARTICULARS : **Ground Water Sample at Pump House No.1 Near CCR Room for Terminal-1**

Frequency Of Sampling	:	One Grab sample in a Quarter
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	:	As per IS 10500:2012
Sample Collected On	:	02.06.2021
Analysis Start Date	:	04.06.2021
Analysis Completion Date	:	12.06.2021
Sample collected by Vimta Labs Ltd.,		

TEST REPORT

Sr.No	Parameter	UoM	Method of Testing	Results	Limits as per IS 10500 : 2012
1	pH	--	IS 3025 (Part-11)	7.21	6.5-8.5 (NR)
2	Salinity	ppt	APHA 23rd (2520B)	0.29	--
3	Conductivity	µs/cm	APHA 23rd (2510B)	965	--
4	Total Dissolved Solids	mg/l	IS 3025 (Part 16)	598	500(2000)
5	Carbonates as $CaCO_3$	mg/l	IS 3025 (Part-23)	0	500(2000)
6	Bicarbonates as HCO_3	mg/l	IS 3025 (Part-23)	148	200(600)
7	Chlorides as Cl	mg/l	IS 3025 (Part 32)	165.2	200(600)
8	Mercury as Hg	mg/l	APHA 23rd 3125	<0.001	0.001(NR)
9	Arsenic as As	mg/l	APHA 23rd 3125	<0.01	0.01(0.05)
10	Lead as Pb	mg/l	APHA 23rd 3125	<0.01	0.01(NR)
11	Chromium as Cr	mg/l	APHA 23rd 3125	<0.05	0.05(NR)
12	Cadmium as Cd	mg/l	APHA 23rd 3125	<0.003	0.003(0.003)
13	Total Alkalinity as $CaCO_3$	mg/l	IS 3025 (Part-23)	148	200(600)
14	Calcium as Ca	mg/l	IS 3025 (part	56.7	75(200)
15	Magnesium as Mg	mg/l	IS 3025 (Part	28.6	30(100)
16	Sodium as Na	mg/l	APHA 23rd (3500 Na)	98.4	--
17	Potassium as K	mg/l	APHA 23rd (3500 K)	6.5	--
18	Sulphates as SO_4	mg/l	IS 3025 (part-24)	84.6	200(400)
19	Nitrates as NO_3	mg/l	APHA 23rd (4500)	12.3	45(NR)

Dr. SubbaReddyMallampati
Group Leader-Environment

Vimta Labs Limited
Registered Office
142, IDA Phase II, Cherlapally
Hyderabad-500 051,Telangana, India
T : +91 40 2726 4141
F : +91 40 2726 3657

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Report Number : VLL/VLS/21/02413/014
Issued Date : 2021.07.06
P. Order Ref : 5700291869
P.O. Date : 13.10.2020

SAMPLE PARTICULARS : **Ground Water Sample at Pump House No.1 Near CCR Room for Terminal-1**

TEST REPORT

Sr.No	Parameter	UoM	Method of Testing	Results	Limits as per IS 10500 : 2012
20	Phosphates as PO_4	mg/l	APHA 23rd (4500 –P D)	<0.01	--
21	Barium as Ba	mg/l	APHA 23rd 3125	0.17	0.7(NR)
22	Fluoride as F	mg/l	APHA 23rd (4500)	0.4	1.0(1.5)
23	Cobalt as Co	mg/l	APHA 23rd 3125	<0.01	--
24	Copper as Cu	mg/l	APHA 23rd 3125	<0.01	0.05(1.5)
25	Manganese as Mn	mg/l	APHA 23rd 3125	0.01	0.1(0.3)
26	Nickel as Ni	mg/l	APHA 23rd 3125	<0.01	0.02(NR)
27	Total Hardness as $CaCO_3$	mg/l	IS 3025 (Part-21)	259.4	200(600)
28	Iron as Fe	mg/l	APHA 23rd 3125	0.04	1.0
29	Silica as SiO_2	mg/l	APHA 23rd (4500 – SiO_2)	1.2	--

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Group Leader-Environment

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Registered Office
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UTTARPRADESH-226009

Report Number	:	VLL/VLS/21/02413/015
Issued Date	:	2021.07.06
P. Order Ref	:	5700291869
P.O. Date	:	13.10.2020

SAMPLE PARTICULARS : **Ground Water Sample at Pump House No.2 Near STP Plant for Terminal-1**

Frequency Of Sampling	:	One Grab sample in a Quarter
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	:	As per Work Order
Sample Collected On	:	02.06.2021
Analysis Start Date	:	04.06.2021
Analysis Completion Date	:	12.06.2021
Sample collected by Vimta Labs Ltd.,		

TEST REPORT

Sr.No	Parameter	UoM	Method of Testing	Results	Limits as per IS 10500 : 2012
1	pH	--	IS 3025 (Part-11)	7.46	6.5-8.5 (NR)
2	Salinity	ppt	APHA 23rd (2520B)	0.33	--
3	Conductivity	µs/cm	APHA 23rd (2510B)	1061	--
4	Total Dissolved Solids	mg/l	IS 3025 (Part 16)	665	500(2000)
5	Carbonates as $CaCO_3$	mg/l	IS 3025 (Part-23)	0	500(2000)
6	Bicarbonates as HCO_3	mg/l	IS 3025 (Part-23)	154	200(600)
7	Chlorides as Cl	mg/l	IS 3025 (Part 32)	184.3	200(600)
8	Mercury as Hg	mg/l	APHA 23rd 3125	<0.001	0.001(NR)
9	Arsenic as As	mg/l	APHA 23rd 3125	<0.01	0.01(0.05)
10	Lead as Pb	mg/l	APHA 23rd 3125	<0.01	0.01(NR)
11	Chromium as Cr	mg/l	APHA 23rd 3125	<0.05	0.05(NR)
12	Cadmium as Cd	mg/l	APHA 23rd 3125	<0.003	0.003(0.003)
13	Total Alkalinity as $CaCO_3$	mg/l	IS 3025 (Part-23)	154	200(600)
14	Calcium as Ca	mg/l	IS 3025 (part	62.4	75(200)
15	Magnesium as Mg	mg/l	IS 3025 (Part	31.5	30(100)
16	Sodium as Na	mg/l	APHA 23rd (3500 Na)	110.5	--
17	Potassium as K	mg/l	APHA 23rd (3500 K)	4.8	--
18	Sulphates as SO_4	mg/l	IS 3025 (part-24)	92.3	200(400)
19	Nitrates as NO_3	mg/l	APHA 23rd (4500)	23.6	45(NR)
20	Phosphates as PO_4	mg/l	APHA 23rd (4500 –P D)	<0.01	--

Dr. SubbaReddyMallampati
Group Leader-Environment

Vimta Labs Limited
Registered Office
142, IDA Phase II, Cherlapally
Hyderabad-500 051,Telangana, India
T : +91 40 2726 4141
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/21/02413/015
Issued Date : 2021.07.06
P. Order Ref : 5700291869
P.O. Date : 13.10.2020

SAMPLE PARTICULARS : **Ground Water Sample at Pump House No.2 Near STP Plant for Terminal-1**

TEST REPORT

Sr.No	Parameter	UoM	Method of Testing	Results	Limits as per IS 10500 : 2012
21	Barium as Ba	mg/l	APHA 23rd 3125	0.12	0.7(NR)
22	Fluoride as F	mg/l	APHA 23rd (4500)	0.3	1.0(1.5)
23	Cobalt as Co	mg/l	APHA 23rd 3125	<0.01	--
24	Copper as Cu	mg/l	APHA 23rd 3125	<0.01	0.05(1.5)
25	Manganese as Mn	mg/l	APHA 23rd 3125	<0.01	0.1(0.3)
26	Nickel as Ni	mg/l	APHA 23rd 3125	<0.01	0.02(NR)
27	Total Hardness as $CaCO_3$	mg/l	IS 3025 (Part-21)	285.6	200(600)
28	Iron as Fe	mg/l	APHA 23rd 3125	0.07	1.0
29	Silica as SiO_2	mg/l	APHA 23rd (4500 – SiO_2)	1	--

Dr. SubbaReddyMallampati
Group Leader-Environment

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Registered Office
142, IDA Phase II, Cherlapally
Hyderabad-500 051,Telangana, India
T : +91 40 2726 4141
F : +91 40 2726 3657

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(CHAUDHARY CHARAN SINGH INTERNATIONAL AIRPORT),AMAUSI, LUCKNOW,
UTTARPRADESH-226009

Report Number : VLL/VLS/21/02413/016
Issued Date : 2021.07.06
P. Order Ref : 5700291869
P.O. Date : 13.10.2020

SAMPLE PARTICULARS : Ground Water Sample at Pump House No.3 Near ATC building

Frequency Of Sampling	:	One Grab sample in a Quarter
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	:	As per IS 10500:2012
Sample Collected On	:	02.06.2021
Analysis Start Date	:	04.06.2021
Analysis Completion Date	:	12.06.2021
Sample collected by Vimta Labs Ltd.,		

TEST REPORT

Sr.No	Parameter	UoM	Method of Testing	Results	Limits as per IS 10500 : 2012
1	pH	--	IS 3025 (Part-11)	7.34	6.5-8.5 (NR)
2	Salinity	ppt	APHA 23rd (2520B)	0.24	--
3	Conductivity	µs/cm	APHA 23rd (2510B)	770	--
4	Total Dissolved Solids	mg/l	IS 3025 (Part 16)	470	500(2000)
5	Carbonates as $CaCO_3$	mg/l	IS 3025 (Part-23)	0	500(2000)
6	Bicarbonates as HCO_3	mg/l	IS 3025 (Part-23)	140	200(600)
7	Chlorides as Cl	mg/l	IS 3025 (Part 32)	135.1	200(600)
8	Mercury as Hg	mg/l	APHA 23rd 3125	<0.001	0.001(NR)
9	Arsenic as As	mg/l	APHA 23rd 3125	<0.01	0.01(0.05)
10	Lead as Pb	mg/l	APHA 23rd 3125	<0.01	0.01(NR)
11	Chromium as Cr	mg/l	APHA 23rd 3125	<0.05	0.05(NR)
12	Cadmium as Cd	mg/l	APHA 23rd 3125	<0.003	0.003(0.003)
13	Total Alkalinity as $CaCO_3$	mg/l	IS 3025 (Part-23)	140	200(600)
14	Calcium as Ca	mg/l	IS 3025 (part	46.6	75(200)
15	Magnesium as Mg	mg/l	IS 3025 (Part	19.7	30(100)
16	Sodium as Na	mg/l	APHA 23rd (3500 Na)	81.5	--
17	Potassium as K	mg/l	APHA 23rd (3500 K)	7.3	--
18	Sulphates as SO_4	mg/l	IS 3025 (part-24)	41.6	200(400)
19	Nitrates as NO_3	mg/l	APHA 23rd (4500)	9.8	45(NR)
20	Phosphates as PO_4	mg/l	APHA 23rd (4500 –P D)	<0.01	--

Dr. SubbaReddyMallampati
Group Leader-Environment

Vimta Labs Limited
Registered Office
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Hyderabad-500 051,Telangana, India
T : +91 40 2726 4141
F : +91 40 2726 3657

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UTTARPRADESH-226009

Report Number : VLL/VLS/21/02413/016
Issued Date : 2021.07.06
P. Order Ref : 5700291869
P.O. Date : 13.10.2020

SAMPLE PARTICULARS : **Ground Water Sample at Pump House No.3 Near ATC building**

TEST REPORT

Sr.No	Parameter	UoM	Method of Testing	Results	Limits as per IS 10500 : 2012
21	Barium as Ba	mg/l	APHA 23rd 3125	0.08	0.7(NR)
22	Fluoride as F	mg/l	APHA 23rd (4500)	0.6	1.0(1.5)
23	Cobalt as Co	mg/l	APHA 23rd 3125	<0.01	--
24	Copper as Cu	mg/l	APHA 23rd 3125	<0.01	0.05(1.5)
25	Manganese as Mn	mg/l	APHA 23rd 3125	0.01	0.1(0.3)
26	Nickel as Ni	mg/l	APHA 23rd 3125	<0.01	0.02(NR)
27	Total Hardness as $CaCO_3$	mg/l	IS 3025 (Part-21)	197.6	200(600)
28	Iron as Fe	mg/l	APHA 23rd 3125	0.05	1.0
29	Silica as SiO_2	mg/l	APHA 23rd (4500 – SiO_2)	1.7	--

Dr. SubbaReddyMallampati
Group Leader-Environment

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Registered Office
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UTTARPRADESH-226009

Report Number	:	VLL/VLS/21/02413/017
Issued Date	:	2021.07.06
P. Order Ref	:	5700291869
P.O. Date	:	13.10.2020

SAMPLE PARTICULARS : **Ground Water Sample at Pump House No.4 Near DGCA Building**

Frequency Of Sampling	:	One Grab sample in a Quarter
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	:	As per IS 10500:2012
Sample Collected On	:	02.06.2021
Analysis Start Date	:	04.06.2021
Analysis Completion Date	:	12.06.2021
Sample collected by Vimta Labs Ltd.,		

TEST REPORT

Sr.No	Parameter	UoM	Method of Testing	Results	Limits as per IS 10500 : 2012
1	pH	--	IS 3025 (Part-11)	7.51	6.5-8.5 (NR)
2	Salinity	ppt	APHA 23rd (2520B)	0.34	--
3	Conductivity	µs/cm	APHA 23rd (2510B)	1090	--
4	Total Dissolved Solids	mg/l	IS 3025 (Part 16)	680	500(2000)
5	Carbonates as $CaCO_3$	mg/l	IS 3025 (Part-23)	0	500(2000)
6	Bicarbonates as HCO_3	mg/l	IS 3025 (Part-23)	185	200(600)
7	Chlorides as Cl	mg/l	IS 3025 (Part 32)	191.5	200(600)
8	Mercury as Hg	mg/l	APHA 23rd 3125	<0.001	0.001(NR)
9	Arsenic as As	mg/l	APHA 23rd 3125	<0.01	0.01(0.05)
10	Lead as Pb	mg/l	APHA 23rd 3125	<0.01	0.01(NR)
11	Chromium as Cr	mg/l	APHA 23rd 3125	<0.05	0.05(NR)
12	Cadmium as Cd	mg/l	APHA 23rd 3125	<0.003	0.003(0.003)
13	Total Alkalinity as $CaCO_3$	mg/l	IS 3025 (Part-23)	185	200(600)
14	Calcium as Ca	mg/l	IS 3025 (part	67.5	75(200)
15	Magnesium as Mg	mg/l	IS 3025 (Part	29.5	30(100)
16	Sodium as Na	mg/l	APHA 23rd (3500 Na)	112.4	--
17	Potassium as K	mg/l	APHA 23rd (3500 K)	8.9	--
18	Sulphates as SO_4	mg/l	IS 3025 (part-24)	79.8	200(400)
19	Nitrates as NO_3	mg/l	APHA 23rd (4500)	7.4	45(NR)
20	Phosphates as PO_4	mg/l	APHA 23rd (4500 –P D)	<0.01	--

Dr. SubbaReddyMallampati
Group Leader-Environment

Vimta Labs Limited
Registered Office
142, IDA Phase II, Cherlapally
Hyderabad-500 051,Telangana, India
T : +91 40 2726 4141
F : +91 40 2726 3657

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(CHAUDHARY CHARAN SINGH INTERNATIONAL AIRPORT),AMAUSI, LUCKNOW,
UTTARPRADESH-226009

Report Number : VLL/VLS/21/02413/017
Issued Date : 2021.07.06
P. Order Ref : 5700291869
P.O. Date : 13.10.2020

SAMPLE PARTICULARS : **Ground Water Sample at Pump House No.4 Near DGCA Building**

TEST REPORT

Sr.No	Parameter	UoM	Method of Testing	Results	Limits as per IS 10500 : 2012
21	Barium as Ba	mg/l	APHA 23rd 3125	0.15	0.7(NR)
22	Fluoride as F	mg/l	APHA 23rd (4500)	0.5	1.0(1.5)
23	Cobalt as Co	mg/l	APHA 23rd 3125	<0.01	--
24	Copper as Cu	mg/l	APHA 23rd 3125	<0.01	0.05(1.5)
25	Manganese as Mn	mg/l	APHA 23rd 3125	0.02	0.1(0.3)
26	Nickel as Ni	mg/l	APHA 23rd 3125	<0.01	0.02(NR)
27	Total Hardness as $CaCO_3$	mg/l	IS 3025 (Part-21)	290.1	200(600)
28	Iron as Fe	mg/l	APHA 23rd 3125	0.09	1.0
29	Silica as SiO_2	mg/l	APHA 23rd (4500 – SiO_2)	1.4	--

Dr. SubbaReddyMallampati
Group Leader-Environment

Vimta Labs Limited
Registered Office
142, IDA Phase II, Cherlapally
Hyderabad-500 051,Telangana, India
T : +91 40 2726 4141
F : +91 40 2726 3657

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

Report Number : VLL/VLS/21/02413/018
Issue Date : 2021.07.06
P.O. Ref : 5700291869
P.O. Date : 13.10.2020

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 :	2021-06-10
Analysis Starting Date :	2021-06-14
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	$\mu g/m^3$	IS-5182(P-23)	54.6	100
2	Particulate Matter as PM2.5	$\mu g/m^3$	IS-5182(P-24)	25.2	60
3	Sulphur dioxide as SO2	$\mu g/m^3$	IS-5182 (Part-02)	12.3	80
4	Nitrogen dioxide as NO2	$\mu g/m^3$	IS-5182 (Part-06)	14.8	80
5	Ozone (O3)	$\mu g/m^3$	Method-411	8.3	100
6	Carbon monoxide (CO)	mg/m^3	IS-5182 (Part-10)	0.41	02
7	Ammonia (NH3)	$\mu g/m^3$	Indophenol Blue Method	BDL	400
8	Lead (Pb)	$\mu g/m^3$	IS-5182 (Part-22)	BDL	01
9	Arsenic (As)	ng/m^3	IS-5182 (Part-22)	BDL	NA
10	Nickel (Ni)	ng/m^3	IS-5182 (Part-22)	BDL	NA
11	Benzene (C6H6)	$\mu g/m^3$	ASTM D 3686-95	BDL	NA
12	Benzo (A) Pyrene (BaP)	ng/m^3	USEPA 8270D	BDL	NA

Remarks:
Carbon Monoxide detectable Limit 10$\mu g/m^3$
Lead Detectable Limit 0.01$\mu g/m^3$
Arsenic and Nickel Detectable Limit 2ng/m^3
Benzene Detectable Limit 2 $\mu g/m^3$
B(a)P Detectable Limit 0. 2ng/m^3

Dr. SubbaReddy Mallampati
Group Leader-Environment

Vimta Labs Limited
Registered Office
142, IDA Phase II, Cherlapally
Hyderabad-500 051,Telangana, India
T : +91 40 2726 4141
F : +91 40 2726 3657

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

Report Number : VLL/VLS/21/02413/019
Issue Date : 2021.07.06
P.O. Ref : 5700291869
P.O. Date : 13.10.2020

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 :	2021-06-10
Analysis Starting Date :	2021-06-14
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	$\mu g/m^3$	IS-5182(P-23)	58.2	100
2	Particulate Matter as PM2.5	$\mu g/m^3$	IS-5182(P-24)	25.5	60
3	Sulphur dioxide as SO2	$\mu g/m^3$	IS-5182 (Part-02)	13.0	80
4	Nitrogen dioxide as NO2	$\mu g/m^3$	IS-5182 (Part-06)	15.7	80
5	Ozone (O3)	$\mu g/m^3$	Method-411	9.1	100
6	Carbon monoxide (CO)	mg/m^3	IS-5182 (Part-10)	0.49	02
7	Ammonia (NH3)	$\mu g/m^3$	Indophenol Blue Method	BDL	400
8	Lead (Pb)	$\mu g/m^3$	IS-5182 (Part-22)	BDL	01
9	Arsenic (As)	ng/m^3	IS-5182 (Part-22)	BDL	NA
10	Nickel (Ni)	ng/m^3	IS-5182 (Part-22)	3.5	NA
11	Benzene (C6H6)	$\mu g/m^3$	ASTM D 3686-95	BDL	NA
12	Benzo (A) Pyrene (BaP)	ng/m^3	USEPA 8270D	BDL	NA

Remarks:
Carbon Monoxide detectable Limit 10$\mu g/m^3$
Lead Detectable Limit 0.01$\mu g/m^3$
Arsenic and Nickel Detectable Limit 2ng/m^3
Benzene Detectable Limit 2 $\mu g/m^3$
B(a)P Detectable Limit 0. 2ng/m^3

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Group Leader-Environment

Vimta Labs Limited
Registered Office
142, IDA Phase II, Cherlapally
Hyderabad-500 051,Telangana, India
T : +91 40 2726 4141
F : +91 40 2726 3657

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

Report Number : VLL/VLS/21/02413/020
Issue Date : 2021.07.06
P.O. Ref : 5700291869
P.O. Date : 13.10.2020

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 :	2021-06-10
Analysis Starting Date :	2021-06-14
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	$\mu g/m^3$	IS-5182(P-23)	61.4	100
2	Particulate Matter as PM2.5	$\mu g/m^3$	IS-5182(P-24)	25.5	60
3	Sulphur dioxide as SO2	$\mu g/m^3$	IS-5182 (Part-02)	13.1	80
4	Nitrogen dioxide as NO2	$\mu g/m^3$	IS-5182 (Part-06)	15.8	80
5	Ozone (O3)	$\mu g/m^3$	Method-411	7.2	100
6	Carbon monoxide (CO)	mg/m^3	IS-5182 (Part-10)	0.47	02
7	Ammonia (NH3)	$\mu g/m^3$	Indophenol Blue Method	BDL	400
8	Lead (Pb)	$\mu g/m^3$	IS-5182 (Part-22)	BDL	01
9	Arsenic (As)	ng/m^3	IS-5182 (Part-22)	BDL	NA
10	Nickel (Ni)	ng/m^3	IS-5182 (Part-22)	BDL	NA
11	Benzene (C6H6)	$\mu g/m^3$	ASTM D 3686-95	BDL	NA
12	Benzo (A) Pyrene (BaP)	ng/m^3	USEPA 8270D	BDL	NA

Remarks:
Carbon Monoxide detectable Limit 10$\mu g/m^3$
Lead Detectable Limit 0.01$\mu g/m^3$
Arsenic and Nickel Detectable Limit 2ng/m^3
Benzene Detectable Limit 2 $\mu g/m^3$
B(a)P Detectable Limit 0. 2ng/m^3

Dr. SubbaReddy Mallampati
Group Leader-Environment

Vimta Labs Limited
Registered Office
142, IDA Phase II, Cherlapally
Hyderabad-500 051,Telangana, India
T : +91 40 2726 4141
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(CHAUDHARY CHARAN SINGH INTERNATIONAL AIRPORT),
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UTTAR PRADESH-226009

Report Number : VLL/VLS/21/02413/021
Issue Date : 2021.07.06
P.O. Ref : 5700291869
P.O. Date : 13.10.2020

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 :	2021-06-10
Analysis Starting Date :	2021-06-14
Sampling Duration (minutes)	1440
Sampling Location :	Near Terminal-2 Building

TEST REPORT

Sr. No	Test parameters	UoM	Method of Testing	Results	NAAQS Limits
1	Particulate Matter as PM10	$\mu g/m^3$	IS-5182(P-23)	63.5	100
2	Particulate Matter as PM2.5	$\mu g/m^3$	IS-5182(P-24)	28.4	60
3	Sulphur dioxide as SO2	$\mu g/m^3$	IS-5182 (Part-02)	13.7	80
4	Nitrogen dioxide as NO2	$\mu g/m^3$	IS-5182 (Part-06)	15.9	80
5	Ozone (O3)	$\mu g/m^3$	Method-411	9.4	100
6	Carbon monoxide (CO)	mg/m^3	IS-5182 (Part-10)	0.52	02
7	Ammonia (NH3)	$\mu g/m^3$	Indophenol Blue Method	BDL	400
8	Lead (Pb)	$\mu g/m^3$	IS-5182 (Part-22)	BDL	01
9	Arsenic (As)	ng/m^3	IS-5182 (Part-22)	BDL	NA
10	Nickel (Ni)	ng/m^3	IS-5182 (Part-22)	4.4	NA
11	Benzene (C6H6)	$\mu g/m^3$	ASTM D 3686-95	BDL	NA
12	Benzo (A) Pyrene (BaP)	ng/m^3	USEPA 8270D	BDL	NA

Remarks:
Carbon Monoxide detectable Limit 10$\mu g/m^3$
Lead Detectable Limit 0.01$\mu g/m^3$
Arsenic and Nickel Detectable Limit 2ng/m^3
Benzene Detectable Limit 2 $\mu g/m^3$
B(a)P Detectable Limit 0. 2ng/m^3

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Group Leader-Environment

Vimta Labs Limited
Registered Office
142, IDA Phase II, Cherlapally
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AMAUSI, LUCKNOW,
UTTAR PRADESH-226009

Report Number	:	VLL/VLS/21/02413/022
Issued Date	:	2021.07.06
P. Order Ref	:	5700291869
P.O. Date	:	13.10.2020

SAMPLE PARTICULARS : FLIGHT PATH AREA 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 2021**
Test Required	:	L-Day and L-Night

Sample collected by Vimta labs ltd

TEST REPORT

Location Code	FPN-1		
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: 8th June 2021	53.4	44.3	51.9
Day-2: 9th June 2021	52.5	41.9	51.0
Day-3: 10th June 2021	52.7	43.3	51.2
Day-4: 11th June 2021	53.9	42.4	52.3
Day-5: 12th June 2021	53.2	43.9	51.7
Day-6: 13th June 2021	51.6	42.3	51.8
Day-7: 14th June 2021	52.6	44.4	53.3

Dr. SubbaReddy Mallampati
Group Leader-Environment

Vimta Labs Limited
Registered Office
142, IDA Phase II, Cherlapally
Hyderabad-500 051,Telangana, India
T : +91 40 2726 4141
F : +91 40 2726 3657

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

Report Number	:	VLL/VLS/21/02413/023
Issued Date	:	2021.07.06
P. Order Ref	:	5700291869
P.O. Date	:	13.10.2020

SAMPLE PARTICULARS : FLIGHT PATH AREA 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 2021**
Test Required	:	L-Day and L-Night

Sample collected by Vimta labs ltd

TEST REPORT

Location Code	**FPN-2**		
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: 15th June 2021	53.6	44.2	52.1
Day-2: 16th June 2021	52.4	43.9	53.0
Day-3: 17th June 2021	54.4	44.0	52.9
Day-4: 18th June 2021	53.3	44.1	51.8
Day-5: 19th June 2021	51.8	42.6	50.3
Day-6: 20th June 2021	51.8	43.9	50.4
Day-7: 21st June 2021	53.2	43.5	51.8

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Group Leader-Environment

Vimta Labs Limited
Registered Office
142, IDA Phase II, Cherlapally
Hyderabad-500 051,Telangana, India
T : +91 40 2726 4141
F : +91 40 2726 3657

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UTTAR PRADESH-226009

Report Number	:	VLL/VLS/21/02413/024
Issued Date	:	2021.07.06
P. Order Ref	:	5700291869
P.O. Date	:	13.10.2020

SAMPLE PARTICULARS : FLIGHT PATH AREA 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 2021**
Test Required	:	L-Day and L-Night

Sample collected by Vimta labs ltd

TEST REPORT

Location Code	FPN-3		
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: 22nd June 2021	52.4	43.3	50.9
Day-2: 23rd June 2021	51.1	41.6	49.6
Day-3: 24th June 2021	52.9	45.2	51.4
Day-4: 25th June 2021	52.7	43.4	51.1
Day-5: 26th June 2021	53.6	43.3	52.1
Day-6: 27th June 2021	51.9	42.7	50.4
Day-7: 28th June 2021	52.5	42.9	51.0

Dr. SubbaReddy Mallampati
Group Leader-Environment

Vimta Labs Limited
Registered Office
142, IDA Phase II, Cherlapally
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Report Number	:	VLL/VLS/21/04936/001
Issued Date	:	2021.08.03
P. Order Ref	:	5700291869
P.O. Date	:	13.10.2020

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 2021**
Test Required	:	PM_{10}, $PM_{2.5}$, SO_2, and NO_2.
Sample collected by Vimta labs ltd		

TEST REPORT

Location Code:AAQ-1	RESULTS (µg/m³)			
Date of Sampling	**Particulates Less than 2.5 microns as $PM_{2.5}$**	**Particulates Less than 10 microns as PM_{10}**	**Sulphur Dioxide as SO_2**	**Nitrogen Dioxide of as NO_2**
02.07.2021	24.6	55.1	13.8	16.6
03.07.2021	27.0	53.5	11.7	13.5
06.07.2021	25.2	54.2	13.0	15.3
08.07.2021	23.1	50.8	12.2	14.7
13.07.2021	24.1	57.3	11.5	13.8
15.07.2021	23.8	53.4	14.1	16.1
20.07.2021	26.4	51.6	12.0	14.4
22.07.2021	24.1	55.2	11.7	13.9
26.07.2021	26.2	53.7	12.6	14.7
28.07.2021	23.8	57.3	11.6	14.1
Minimum	**23.1**	**50.8**	**11.5**	**13.5**
Maximum	**27.0**	**57.3**	**14.1**	**16.6**
Mean	**24.8**	**54.2**	**12.4**	**14.7**
98%le	**26.9**	**57.3**	**14.0**	**16.5**
NAAQ Standard	**60**	**100**	**80**	**80**

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Group Leader-Environment

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Registered Office
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UTTARPRADESH-226009

Report Number	:	VLL/VLS/21/04936/002
Issued Date	:	2021.08.03
P. Order Ref	:	5700291869
P.O. Date	:	13.10.2020

SAMPLE PARTICULARS : AMBIENT AIR QUALITY MONITORING at 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 2021**
Test Required	:	PM_{10}, $PM_{2.5}$, SO_2, and NO_2,
Sample collected by Vimta labs ltd		

TEST REPORT

Location Code:AAQ-2	RESULTS (µg/m³)			
Date of Sampling	**Particulates Less than 2.5 microns as $PM_{2.5}$**	**Particulates Less than 10 microns as PM_{10}**	**Sulphur Dioxide as SO_2**	**Nitrogen Dioxide of as NO_2**
02.07.2021	26.1	57.3	12.4	14.3
03.07.2021	23.7	62.3	11.5	13.9
06.07.2021	25.0	55.2	12.9	15.1
08.07.2021	22.5	60.0	11.5	13.2
13.07.2021	26.4	57.3	12.8	14.8
15.07.2021	24.2	61.4	13.6	15.9
20.07.2021	26.1	63.2	12.7	14.3
22.07.2021	24.9	56.3	11.3	13.7
26.07.2021	26.1	53.4	13.8	15.7
28.07.2021	23.6	58.6	12.1	14.3
Minimum	**22.5**	**53.4**	**11.3**	**13.2**
Maximum	**26.4**	**63.2**	**13.8**	**15.9**
Mean	**24.9**	**58.5**	**12.5**	**14.5**
98%le	**26.3**	**63.0**	**13.8**	**15.9**
NAAQ Standard	60	100	80	80

Dr. SubbaReddy Mallampati
Group Leader-Environment

Vimta Labs Limited
Registered Office
142, IDA Phase II, Cherlapally
Hyderabad-500 051,Telangana, India
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UTTARPRADESH-226009

Report Number	:	VLL/VLS/21/04936/003
Issued Date	:	2021.08.03
P. Order Ref	:	5700291869
P.O. Date	:	13.10.2020

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 2021**
Test Required	:	PM_{10}, $PM_{2.5}$, SO_2, and NO_2,
Sample collected by Vimta labs ltd		

TEST REPORT

Location Code:AAQ-3	RESULTS (µg/m³)			
Date of Sampling	**Particulates Less than 2.5 microns as $PM_{2.5}$**	**Particulates Less than 10 microns as PM_{10}**	**Sulphur Dioxide as SO_2**	**Nitrogen Dioxide of as NO_2**
02.07.2021	23.4	57.5	12.8	14.7
03.07.2021	25.3	55.2	13.1	15.6
06.07.2021	22.7	52.4	11.6	14.0
08.07.2021	26.0	57.5	12.6	15.8
13.07.2021	24.3	54.2	11.6	14.2
15.07.2021	26.2	58.2	12.9	15.1
20.07.2021	23.7	55.3	11.6	13.8
22.07.2021	25.0	57.3	13.7	15.9
26.07.2021	24.2	53.6	11.6	13.2
28.07.2021	22.7	59.5	12.2	14.6
Minimum	**22.7**	**52.4**	**11.6**	**13.2**
Maximum	**26.2**	**59.5**	**13.7**	**15.9**
Mean	**24.4**	**56.1**	**12.4**	**14.7**
98%le	**26.2**	**59.3**	**13.6**	**15.9**
NAAQ Standard	**60**	**100**	**80**	**80**

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Group Leader-Environment

Vimta Labs Limited
Registered Office
142, IDA Phase II, Cherlapally
Hyderabad-500 051,Telangana, India
T : +91 40 2726 4141
F : +91 40 2726 3657

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UTTARPRADESH-226009

Report Number	:	VLL/VLS/21/04936/004
Issued Date	:	2021.08.03
P. Order Ref	:	5700291869
P.O. Date	:	13.10.2020

SAMPLE PARTICULARS : AMBIENT AIR QUALITY MONITORING @ Near Terminal-2 Building

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 2021**
Test Required	:	PM_{10}, $PM_{2.5}$, SO_2, and NO_2,
Sample collected by Vimta labs ltd		

TEST REPORT

Location Code:AAQ-4	RESULTS (µg/m³)			
Date of Sampling	**Particulates Less than 2.5 microns as $PM_{2.5}$**	**Particulates Less than 10 microns as PM_{10}**	**Sulphur Dioxide as SO_2**	**Nitrogen Dioxide of as NO_2**
02.07.2021	26.1	56.3	11.7	13.9
03.07.2021	23.2	60.6	12.8	14.8
06.07.2021	25.8	58.7	14.0	16.1
08.07.2021	26.7	61.4	12.7	15.2
13.07.2021	23.7	58.3	11.5	16.2
15.07.2021	26.3	59.3	13.6	15.3
20.07.2021	23.5	55.3	12.8	14.1
22.07.2021	26.1	57.7	13.1	15.4
26.07.2021	23.8	59.3	12.5	14.7
28.07.2021	25.6	60.3	11.7	13.9
Minimum	**23.2**	**55.3**	**11.5**	**13.9**
Maximum	**26.7**	**61.4**	**14.0**	**16.2**
Mean	**25.1**	**58.7**	**12.6**	**15.0**
98%le	**26.6**	**61.3**	**13.9**	**16.2**
NAAQ Standard	60	100	80	80

Dr. SubbaReddy Mallampati
Group Leader-Environment

Vimta Labs Limited
Registered Office
142, IDA Phase II, Cherlapally
Hyderabad-500 051,Telangana, India
T : +91 40 2726 4141
F : +91 40 2726 3657

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UTTAR PRADESH-226009

Report Number	:	VLL/VLS/21/04936/005
Issued Date	:	2021.08.03
P. Order Ref	:	5700291869
P.O. Date	:	13.10.2020

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 2021**
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)	08.07.2021	55.2	49.9
2	Top of SCADA Building	06.07.2021	57.3	52.3
3	Near Terminal-1 Building	02.07.2021	60.0	54.7
4	Near Terminal-2 Building	03.07.2021	63.5	55.7
Noise Standards			**70.0**	**65.0**

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Group Leader-Environment

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Registered Office
142, IDA Phase II, Cherlapally
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T : +91 40 2726 4141
F : +91 40 2726 3657

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UTTARPRADESH-226009

Report Number	:	VLL/VLS/21/04936/006
Issued Date	:	2021.08.03
P. Order Ref	:	5700291869
P.O. Date	:	13.10.2020

SAMPLE PARTICULARS : STP OUTLET WASTEWATER

Frequency Of Sampling	:	One Grab sample in a Month
Month of Sampling	:	**JULY 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	:	13.07.2021
Analysis Start Date	:	15.07.2021
Analysis Completion Date	:	23.07.2021
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	--	7.5	5.5 - 9.0	6.5 - 9.0
2	Total Suspended Solids	IS:3025 P-16	mg/L	38	< 100	< 50
3	Total Dissolved Solids	IS:3025 P-16	mg/L	441	< 2100	--
4	Total Nitrogen	APHA 4500-B	mg/L	2.8	< 10	--
5	Chemical Oxygen Demand	APHA 5220B	mg/L	47	< 250	--
6	Biological Oxygen Demand at 27°C, 3 days	IS:3025 P-44	mg/L	12	< 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	--

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Group Leader-Environment

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T : +91 40 2726 4141
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Report Number	:	VLL/VLS/21/06576/001
Issued Date	:	2021.09.06
P. Order Ref	:	5700291869
P.O. Date	:	13.10.2020

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 2021**
Test Required	:	PM_{10}, $PM_{2.5}$, SO_2, and NO_2.
Sample collected by Vimta labs ltd		

TEST REPORT

Location Code:AAQ-1	RESULTS (µg/m³)			
Date of Sampling	**Particulates Less than 2.5 microns as $PM_{2.5}$**	**Particulates Less than 10 microns as PM_{10}**	**Sulphur Dioxide as SO_2**	**Nitrogen Dioxide of as NO_2**
02.08.2021	28.1	57.2	12.5	15.4
03.08.2021	25.3	59.2	15.3	17.4
09.08.2021	27.6	53.4	11.7	14.2
10.08.2021	25.3	56.3	13.8	16.6
16.08.2021	26.2	59.4	12.8	15.7
17.08.2021	23.5	55.5	11.8	13.8
23.08.2021	28.1	62.3	13.6	16.3
24.08.2021	25.8	52.3	12.4	14.7
30.08.2021	23.7	58.2	10.8	13.3
31.08.2021	26.0	54.7	13.2	15.8
Minimum	**23.5**	**52.3**	**10.8**	**13.3**
Maximum	**28.1**	**62.3**	**15.3**	**17.4**
Mean	**26.0**	**56.9**	**12.8**	**15.3**
98%le	**28.1**	**61.8**	**15.0**	**17.3**
NAAQ Standard	**60**	**100**	**80**	**80**

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Report Number	:	VLL/VLS/21/06576/002
Issued Date	:	2021.09.06
P. Order Ref	:	5700291869
P.O. Date	:	13.10.2020

SAMPLE PARTICULARS : AMBIENT AIR QUALITY MONITORING at 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 2021**
Test Required	:	PM_{10}, $PM_{2.5}$, SO_2, and NO_2,
Sample collected by Vimta labs ltd		

TEST REPORT

Location Code:AAQ-2	RESULTS (µg/m³)			
Date of Sampling	**Particulates Less than 2.5 microns as $PM_{2.5}$**	**Particulates Less than 10 microns as PM_{10}**	**Sulphur Dioxide as SO_2**	**Nitrogen Dioxide of as NO_2**
02.08.2021	23.9	54.7	11.0	13.7
03.08.2021	21.5	58.1	12.8	15.1
09.08.2021	22.8	55.3	14.2	16.3
10.08.2021	26.6	57.4	12.8	14.4
16.08.2021	24.2	54.7	13.3	16.0
17.08.2021	22.0	58.8	14.5	15.6
23.08.2021	23.9	54.2	10.6	13.5
24.08.2021	25.9	57.6	12.6	16.3
30.08.2021	23.5	52.4	11.6	14.4
31.08.2021	21.4	56.0	13.4	15.5
Minimum	**21.4**	**52.4**	**10.6**	**13.5**
Maximum	**26.6**	**58.8**	**14.5**	**16.3**
Mean	**23.6**	**55.9**	**12.7**	**15.1**
98%le	**26.5**	**58.7**	**14.4**	**16.3**
NAAQ Standard	**60**	**100**	**80**	**80**

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Report Number	:	VLL/VLS/21/06576/003
Issued Date	:	2021.09.06
P. Order Ref	:	5700291869
P.O. Date	:	13.10.2020

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 2021**
Test Required	:	PM_{10}, $PM_{2.5}$, SO_2, and NO_2,
Sample collected by Vimta labs ltd		

TEST REPORT

Location Code:AAQ-3	RESULTS (µg/m³)			
Date of Sampling	**Particulates Less than 2.5 microns as $PM_{2.5}$**	**Particulates Less than 10 microns as PM_{10}**	**Sulphur Dioxide as SO_2**	**Nitrogen Dioxide of as NO_2**
02.08.2021	27.2	59.7	13.8	16.2
03.08.2021	24.5	57.4	11.6	14.2
09.08.2021	26.7	54.6	12.8	15.5
10.08.2021	23.4	59.7	13.8	16.2
16.08.2021	27.0	56.4	12.5	15.7
17.08.2021	25.3	60.4	11.5	13.5
23.08.2021	22.5	57.5	13.3	15.3
24.08.2021	26.9	59.5	12.6	16.6
30.08.2021	23.8	56.7	11.8	14.2
31.08.2021	25.5	53.2	10.7	13.7
Minimum	**22.5**	**53.2**	**10.7**	**13.5**
Maximum	**27.2**	**60.4**	**13.8**	**16.6**
Mean	**25.3**	**57.5**	**12.4**	**15.1**
98%le	**27.2**	**60.3**	**13.8**	**16.5**
NAAQ Standard	**60**	**100**	**80**	**80**

Dr. SubbaReddy Mallampati
Group Leader-Environment

Vimta Labs Limited
Registered Office
142, IDA Phase II, Cherlapally
Hyderabad-500 051,Telangana, India
T : +91 40 2726 4141
F : +91 40 2726 3657

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AMAUSI, LUCKNOW,
UTTARPRADESH-226009

Report Number	:	VLL/VLS/21/06576/004
Issued Date	:	2021.09.06
P. Order Ref	:	5700291869
P.O. Date	:	13.10.2020

SAMPLE PARTICULARS : AMBIENT AIR QUALITY MONITORING @ Near Terminal-2 Building

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 2021**
Test Required	:	PM_{10}, $PM_{2.5}$, SO_2, and NO_2,
Sample collected by Vimta labs ltd		

TEST REPORT

Location Code:AAQ-4	RESULTS (µg/m³)			
Date of Sampling	**Particulates Less than 2.5 microns as $PM_{2.5}$**	**Particulates Less than 10 microns as PM_{10}**	**Sulphur Dioxide as SO_2**	**Nitrogen Dioxide of as NO_2**
02.08.2021	23.8	58.5	13.2	15.2
03.08.2021	26.5	54.3	14.3	17.0
09.08.2021	22.9	53.7	12.3	15.2
10.08.2021	23.1	57.3	14.2	16.5
16.08.2021	25.4	54.9	13.0	14.4
17.08.2021	22.8	52.6	12.8	15.4
23.08.2021	26.6	53.7	14.3	16.1
24.08.2021	23.8	55.8	13.5	14.7
30.08.2021	25.5	57.2	12.8	15.8
31.08.2021	22.6	53.7	13.2	14.9
Minimum	**22.6**	**52.6**	**12.3**	**14.4**
Maximum	**26.6**	**58.5**	**14.3**	**17.0**
Mean	**24.3**	**55.2**	**13.4**	**15.5**
98%le	**26.6**	**58.3**	**14.3**	**16.9**
NAAQ Standard	**60**	**100**	**80**	**80**

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Group Leader-Environment

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142, IDA Phase II, Cherlapally
Hyderabad-500 051,Telangana, India
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UTTAR PRADESH-226009

Report Number	:	VLL/VLS/21/06576/005
Issued Date	:	2021.09.06
P. Order Ref	:	5700291869
P.O. Date	:	13.10.2020

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 2021**
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)	10.08.2021	58.6	52,7
2	Top of SCADA Building	09.08.2021	59.7	54.2
3	Near Terminal-1 Building	02.08.2021	63.8	55.7
4	Near Terminal-2 Building	03.08.2021	64.6	56.5
Noise Standards			**70.0**	**65.0**

Dr. SubbaReddy Mallampati
Group Leader-Environment

Vimta Labs Limited
Registered Office
142, IDA Phase II, Cherlapally
Hyderabad-500 051,Telangana, India
T : +91 40 2726 4141
F : +91 40 2726 3657

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UTTARPRADESH-226009

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

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
Registered Office
142, IDA Phase II, Cherlapally
Hyderabad-500 051,Telangana, India
T : +91 40 2726 4141
F : +91 40 2726 3657

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Report Number	:	VLL/VLS/21/07984/001
Issued Date	:	2021.10.07
P. Order Ref	:	5700291869
P.O. Date	:	13.10.2020

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 2021**
Test Required	:	PM_{10}, $PM_{2.5}$, SO_2, and NO_2.
Sample collected by Vimta labs ltd		

TEST REPORT

Location Code:AAQ-1	RESULTS ($\mu g/m^3$)			
Date of Sampling	**Particulates Less than 2.5 microns as $PM_{2.5}$**	**Particulates Less than 10 microns as PM_{10}**	**Sulphur Dioxide as SO_2**	**Nitrogen Dioxide of as NO_2**
07.09.2021	25.7	55.2	13.4	14.7
08.09.2021	23.5	57.1	14.2	16.8
14.09.2021	24.2	51.2	12.6	15.4
15.09.2021	27.8	60.4	11.5	14.0
21.09.2021	24.4	57.2	13.7	16.9
25.09.2021	22.6	53.3	12.9	14.2
28.09.2021	26.3	58.3	14.0	15.8
29.09.2021	27.0	56.2	13.2	15.9
Minimum	**22.6**	**51.2**	**11.5**	**14.0**
Maximum	**27.8**	**60.4**	**14.2**	**16.9**
Mean	**25.2**	**56.1**	**13.2**	**15.5**
98%le	**27.7**	**60.1**	**14.2**	**16.9**
NAAQ Standard	25.7	55.2	13.4	14.7

Dr. SubbaReddy Mallampati
Group Leader-Environment

Vimta Labs Limited
Registered Office
142, IDA Phase II, Cherlapally
Hyderabad-500 051,Telangana, India
T : +91 40 2726 4141
F : +91 40 2726 3657

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(CHAUDHARY CHARAN SINGH INTERNATIONAL AIRPORT),
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Report Number	:	VLL/VLS/21/07984/002
Issued Date	:	2021.10.07
P. Order Ref	:	5700291869
P.O. Date	:	13.10.2020

SAMPLE PARTICULARS : AMBIENT AIR QUALITY MONITORING at 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 2021**
Test Required	:	PM_{10}, $PM_{2.5}$, SO_2, and NO_2,
Sample collected by Vimta labs ltd		

TEST REPORT

Location Code:AAQ-2	RESULTS (µg/m^3)			
Date of Sampling	**Particulates Less than 2.5 microns as $PM_{2.5}$**	**Particulates Less than 10 microns as PM_{10}**	**Sulphur Dioxide as SO_2**	**Nitrogen Dioxide of as NO_2**
07.09.2021	21.5	52.4	10.8	12.8
08.09.2021	24.1	55.4	11.8	14.1
14.09.2021	20.8	52.6	13.2	15.8
15.09.2021	24.8	55.2	12.3	15.6
21.09.2021	22.4	52.5	14.2	16.1
25.09.2021	25.3	57.1	13.1	14.9
28.09.2021	22.1	52.0	11.5	14.0
29.09.2021	23.2	55.5	13.3	15.2
Minimum	**20.8**	**52.0**	**10.8**	**12.8**
Maximum	**25.3**	**57.1**	**14.2**	**16.1**
Mean	**23.0**	**54.1**	**12.5**	**14.8**
98%le	**25.2**	**56.9**	**14.1**	**16.1**
NAAQ Standard	60	100	80	80

Dr. SubbaReddy Mallampati
Group Leader-Environment

Vimta Labs Limited
Registered Office
142, IDA Phase II, Cherlapally
Hyderabad-500 051,Telangana, India
T : +91 40 2726 4141
F : +91 40 2726 3657

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Report Number	:	VLL/VLS/21/07984/003
Issued Date	:	2021.10.07
P. Order Ref	:	5700291869
P.O. Date	:	13.10.2020

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 2021**
Test Required	:	PM_{10}, $PM_{2.5}$, SO_2, and NO_2,
Sample collected by Vimta labs ltd		

TEST REPORT

Location Code:AAQ-3	RESULTS(µg/m^3)			
Date of Sampling	**Particulates Less than 2.5 microns as $PM_{2.5}$**	**Particulates Less than 10 microns as PM_{10}**	**Sulphur Dioxide as SO_2**	**Nitrogen Dioxide of as NO_2**
07.09.2021	26.0	56.4	11.4	14.2
08.09.2021	23.7	55.2	12.5	15.4
14.09.2021	24.5	58.3	13.7	16.7
15.09.2021	26.2	57.5	11.8	13.8
21.09.2021	25.2	55.4	13.4	16.9
25.09.2021	23.5	58.2	14.2	16.4
28.09.2021	24.7	55.3	12.7	14.9
29.09.2021	26.3	57.2	13.5	17.1
Minimum	**23.5**	**55.2**	**11.4**	**13.8**
Maximum	**26.3**	**58.3**	**14.2**	**17.1**
Mean	**25.0**	**56.7**	**12.9**	**15.7**
98%le	**26.3**	**58.3**	**14.1**	**17.1**
NAAQ Standard	60	100	80	80

Dr. SubbaReddy Mallampati
Group Leader-Environment

Vimta Labs Limited
Registered Office
142, IDA Phase II, Cherlapally
Hyderabad-500 051,Telangana, India
T : +91 40 2726 4141
F : +91 40 2726 3657

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Report Number	:	VLL/VLS/21/07984/004
Issued Date	:	2021.10.07
P. Order Ref	:	5700291869
P.O. Date	:	13.10.2020

SAMPLE PARTICULARS	:	**AMBIENT AIR QUALITY MONITORING @ Near Terminal-2 Building**
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 2021**
Test Required	:	PM_{10}, $PM_{2.5}$, SO_2, and NO_2,
Sample collected by Vimta labs ltd		

TEST REPORT

Location Code:AAQ-4	RESULTS (µg/m^3)			
Date of Sampling	**Particulates Less than 2.5 microns as $PM_{2.5}$**	**Particulates Less than 10 microns as PM_{10}**	**Sulphur Dioxide as SO_2**	**Nitrogen Dioxide of as NO_2**
07.09.2021	25.4	55.7	14,3	16.4
08.09.2021	22.4	56.3	12.6	15.2
14.09.2021	25.1	54.2	13.2	16.4
15.09.2021	22.6	55.1	12.7	14.6
21.09.2021	24.7	53.3	14.1	16.7
25.09.2021	23.8	51.6	13.6	15.1
28.09.2021	24.8	55.3	12.7	14.8
29.09.2021	25.9	57.5	14.4	16.3
Minimum	**22.4**	**51.6**	**12.6**	**14.6**
Maximum	**25.9**	**57.5**	**14.4**	**16.7**
Mean	**24.3**	**54.9**	**13.3**	**15.7**
98%le	**25.8**	**57.3**	**14.4**	**16.7**
NAAQ Standard	**60**	**100**	**80**	**80**

Dr. SubbaReddy Mallampati
Group Leader-Environment

Vimta Labs Limited
Registered Office
142, IDA Phase II, Cherlapally
Hyderabad-500 051,Telangana, India
T : +91 40 2726 4141
F : +91 40 2726 3657

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UTTAR PRADESH-226009

Report Number	:	VLL/VLS/21/07984/005
Issued Date	:	2021.10.07
P. Order Ref	:	5700291869
P.O. Date	:	13.10.2020

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 2021**
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)	08.09.2021	60.8	54.5
2	Top of SCADA Building	07.09.2021	62.1	55.8
3	Near Terminal-1 Building	29.09.2021	65.9	57.4
4	Near Terminal-2 Building	30.09.2021	66.5	58.0
Noise Standards			**70.0**	**65.0**

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Group Leader-Environment

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Registered Office
142, IDA Phase II, Cherlapally
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T : +91 40 2726 4141
F : +91 40 2726 3657

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Report Number	:	VLL/VLS/21/07984/006
Issued Date	:	2021.10.07
P. Order Ref	:	5700291869
P.O. Date	:	13.10.2020

SAMPLE PARTICULARS : STP OUTLET WASTEWATER

Frequency Of Sampling	:	One Grab sample in a Month
Month of Sampling	:	**SEPTEMBER 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	:	27.09.2021
Analysis Start Date	:	29.09.2021
Analysis Completion Date	:	04.10.2021
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	--	7.82	5.5 - 9.0	6.5 - 9.0
2	Total Suspended Solids	IS:3025 P-16	mg/L	47	100	< 50
3	Total Dissolved Solids	IS:3025 P-16	mg/L	457	2100	--
4	Total Nitrogen	APHA 4500-B	mg/L	4.4	10	--
5	Chemical Oxygen Demand	APHA 5220B	mg/L	27	250	--
6	Biological Oxygen Demand at 27°C, 3 days	IS:3025 P-44	mg/L	8	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
Registered Office
142, IDA Phase II, Cherlapally
Hyderabad-500 051,Telangana, India
T : +91 40 2726 4141
F : +91 40 2726 3657

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Report Number	:	VLL/VLS/21/07984/007
Issued Date	:	2021.10.07
P. Order Ref	:	5700291869
P.O. Date	:	13.10.2020

SAMPLE PARTICULARS : **DG NOISE EMISSION 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 2021**
Test Required	:	**Sound Pressure Levels in Off and On Conditions**
Sample collected by Vimta labs ltd		

TEST REPORT

Sr.No	DG Set Code& Capacity	Location of DG Installed	Sound Pressure Level in d(B)A.	
			Background Noise Level	DG Running Noise Level
01	DG Set-1 750 KVA	SCADA Power House	55.3	74.0
02	DG Set-2 750 KVA		56.3	72.3
03	DG Set-3 750 KVA		56.0	73.7
04	DG Set-4 750 KVA		59.3	74.1
05	DG Set-5 750 KVA		57.4	71.3
06	DG Set-1 320 KVA	DGCA office	53.6	72.2
07	DG Set-2 320 KVA		56.2	74.7
08	DG Set-1 200 KVA	ATC Technical Block	55.8	71.1
09	DG Set-2 200 KVA		54.2	73.8
10	DG Set-1 200 KVA	MSSR Building	56.7	72.0
11	DG Set-1 320 KVA	CCR Office	52.2	72.5
12	DG Set-2320 KVA		53.1	73.2
DG Noise Standard up to 1000 KVA				**75.0**

Dr. SubbaReddy Mallampati
Group Leader-Environment

Vimta Labs Limited
Registered Office
142, IDA Phase II, Cherlapally
Hyderabad-500 051,Telangana, India
T : +91 40 2726 4141
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(CHAUDHARY CHARAN SINGH INTERNATIONAL AIRPORT),
AMAUSI, LUCKNOW,
UTTAR PRADESH-226009

Report Number : VLL/VLS/21/07984/008
Issue Date : 2021.10.07
P.O. Ref : 5700291869
P.O. Date : 13.10.2020

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 :	2021-09-27
Analysis Starting Date :	2021-09-30
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	$\mu g/m^3$	IS-5182(P-23)	57.8	100
2	Particulate Matter as PM2.5	$\mu g/m^3$	IS-5182(P-24)	26.3	60
3	Sulphur dioxide as SO2	$\mu g/m^3$	IS-5182 (Part-02)	13.7	80
4	Nitrogen dioxide as NO2	$\mu g/m^3$	IS-5182 (Part-06)	16.1	80
5	Ozone (O3)	$\mu g/m^3$	Method-411	9.4	100
6	Carbon monoxide (CO)	mg/m^3	IS-5182 (Part-10)	0.437	02
7	Ammonia (NH3)	$\mu g/m^3$	Indophenol Blue Method	BDL	400
8	Lead (Pb)	$\mu g/m^3$	IS-5182 (Part-22)	BDL	01
9	Arsenic (As)	ng/m^3	IS-5182 (Part-22)	BDL	NA
10	Nickel (Ni)	ng/m^3	IS-5182 (Part-22)	BDL	NA
11	Benzene (C6H6)	$\mu g/m^3$	ASTM D 3686-95	BDL	NA
12	Benzo (A) Pyrene (BaP)	ng/m^3	USEPA 8270D	BDL	NA

Remarks:
Carbon Monoxide detectable Limit 10$\mu g/m^3$
Lead Detectable Limit 0.01$\mu g/m^3$
Arsenic and Nickel Detectable Limit 2ng/m^3
Benzene Detectable Limit 2 $\mu g/m^3$
B(a)P Detectable Limit 0. 2ng/m^3

Dr. SubbaReddy Mallampati
Group Leader-Environment

Vimta Labs Limited
Registered Office
142, IDA Phase II, Cherlapally
Hyderabad-500 051,Telangana, India
T : +91 40 2726 4141
F : +91 40 2726 3657

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Report Number : VLL/VLS/21/07984/009
Issue Date : 2021.10.07
P.O. Ref : 5700291869
P.O. Date : 13.10.2020

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 :	2021-09-27
Analysis Starting Date :	2021-09-30
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	$\mu g/m^3$	IS-5182(P-23)	55.8	100
2	Particulate Matter as PM2.5	$\mu g/m^3$	IS-5182(P-24)	24.3	60
3	Sulphur dioxide as SO2	$\mu g/m^3$	IS-5182 (Part-02)	12.9	80
4	Nitrogen dioxide as NO2	$\mu g/m^3$	IS-5182 (Part-06)	14.5	80
5	Ozone (O3)	$\mu g/m^3$	Method-411	8.2	100
6	Carbon monoxide (CO)	mg/m^3	IS-5182 (Part-10)	0.398	02
7	Ammonia (NH3)	$\mu g/m^3$	Indophenol Blue Method	BDL	400
8	Lead (Pb)	$\mu g/m^3$	IS-5182 (Part-22)	BDL	01
9	Arsenic (As)	ng/m^3	IS-5182 (Part-22)	BDL	NA
10	Nickel (Ni)	ng/m^3	IS-5182 (Part-22)	3.5	NA
11	Benzene (C6H6)	$\mu g/m^3$	ASTM D 3686-95	BDL	NA
12	Benzo (A) Pyrene (BaP)	ng/m^3	USEPA 8270D	BDL	NA

Remarks:
Carbon Monoxide detectable Limit 10$\mu g/m^3$
Lead Detectable Limit 0.01$\mu g/m^3$
Arsenic and Nickel Detectable Limit 2ng/m^3
Benzene Detectable Limit 2 $\mu g/m^3$
B(a)P Detectable Limit 0. 2ng/m^3

Dr. SubbaReddy Mallampati
Group Leader-Environment

Vimta Labs Limited
Registered Office
142, IDA Phase II, Cherlapally
Hyderabad-500 051,Telangana, India
T : +91 40 2726 4141
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,
UTTAR PRADESH-226009

Report Number : VLL/VLS/21/07984/010
Issue Date : 2021.10.07
P.O. Ref : 5700291869
P.O. Date : 13.10.2020

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 :	2021-09-27
Analysis Starting Date :	2021-09-30
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	$\mu g/m^3$	IS-5182(P-23)	59.2	100
2	Particulate Matter as PM2.5	$\mu g/m^3$	IS-5182(P-24)	26.0	60
3	Sulphur dioxide as SO2	$\mu g/m^3$	IS-5182 (Part-02)	14.21	80
4	Nitrogen dioxide as NO2	$\mu g/m^3$	IS-5182 (Part-06)	16.6	80
5	Ozone (O3)	$\mu g/m^3$	Method-411	9.9	100
6	Carbon monoxide (CO)	mg/m^3	IS-5182 (Part-10)	0.502	02
7	Ammonia (NH3)	$\mu g/m^3$	Indophenol Blue Method	BDL	400
8	Lead (Pb)	$\mu g/m^3$	IS-5182 (Part-22)	BDL	01
9	Arsenic (As)	ng/m^3	IS-5182 (Part-22)	BDL	NA
10	Nickel (Ni)	ng/m^3	IS-5182 (Part-22)	BDL	NA
11	Benzene (C6H6)	$\mu g/m^3$	ASTM D 3686-95	BDL	NA
12	Benzo (A) Pyrene (BaP)	ng/m^3	USEPA 8270D	BDL	NA

Remarks:
Carbon Monoxide detectable Limit 10$\mu g/m^3$
Lead Detectable Limit 0.01$\mu g/m^3$
Arsenic and Nickel Detectable Limit 2ng/m^3
Benzene Detectable Limit 2 $\mu g/m^3$
B(a)P Detectable Limit 0. 2ng/m^3

Dr. SubbaReddy Mallampati
Group Leader-Environment

Vimta Labs Limited
Registered Office
142, IDA Phase II, Cherlapally
Hyderabad-500 051,Telangana, India
T : +91 40 2726 4141
F : +91 40 2726 3657

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

Report Number : VLL/VLS/21/07984/011
Issue Date : 2021.10.07
P.O. Ref : 5700291869
P.O. Date : 13.10.2020

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 :	2021-09-27
Analysis Starting Date :	2021-09-30
Sampling Duration (minutes)	1440
Sampling Location :	Near Terminal-2 Building

TEST REPORT

Sr. No	Test parameters	UoM	Method of Testing	Results	NAAQS Limits
1	Particulate Matter as PM10	$\mu g/m^3$	IS-5182(P-23)	61.8	100
2	Particulate Matter as PM2.5	$\mu g/m^3$	IS-5182(P-24)	26.4	60
3	Sulphur dioxide as SO2	$\mu g/m^3$	IS-5182 (Part-02)	13.6	80
4	Nitrogen dioxide as NO2	$\mu g/m^3$	IS-5182 (Part-06)	16.1	80
5	Ozone (O3)	$\mu g/m^3$	Method-411	8.9	100
6	Carbon monoxide (CO)	mg/m^3	IS-5182 (Part-10)	0.497	02
7	Ammonia (NH3)	$\mu g/m^3$	Indophenol Blue Method	BDL	400
8	Lead (Pb)	$\mu g/m^3$	IS-5182 (Part-22)	BDL	01
9	Arsenic (As)	ng/m^3	IS-5182 (Part-22)	BDL	NA
10	Nickel (Ni)	ng/m^3	IS-5182 (Part-22)	4.4	NA
11	Benzene (C6H6)	$\mu g/m^3$	ASTM D 3686-95	BDL	NA
12	Benzo (A) Pyrene (BaP)	ng/m^3	USEPA 8270D	BDL	NA

Remarks:
Carbon Monoxide detectable Limit 10$\mu g/m^3$
Lead Detectable Limit 0.01$\mu g/m^3$
Arsenic and Nickel Detectable Limit 2ng/m^3
Benzene Detectable Limit 2 $\mu g/m^3$
B(a)P Detectable Limit 0. 2ng/m^3

Dr. SubbaReddy Mallampati
Group Leader-Environment

Vimta Labs Limited
Registered Office
142, IDA Phase II, Cherlapally
Hyderabad-500 051,Telangana, India
T : +91 40 2726 4141
F : +91 40 2726 3657

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

Report Number	:	VLL/VLS/21/07984/012
Issued Date	:	2021.10.07
P. Order Ref	:	5700291869
P.O. Date	:	13.10.2020

SAMPLE PARTICULARS : **Ground Water Sample at Pump House No.1 Near CCR Room for Terminal-1**

Frequency Of Sampling	:	One Grab sample in a Quarter
Month of Sampling	:	**SEPTEMBER 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	:	As per IS 10500:2012
Sample Collected On	:	02.09.2021
Analysis Start Date	:	04.09.2021
Analysis Completion Date	:	14.09.2021
Sample collected by Vimta Labs Ltd.,		

TEST REPORT

Sr.No	Parameter	UoM	Method of Testing	Results	Limits as per IS 10500 : 2012
1	pH	--	IS 3025 (Part-11)	7.17	6.5-8.5 (NR)
2	Salinity	ppt	APHA 23rd (2520B)	0.21	--
3	Conductivity	µs/cm	APHA 23rd (2510B)	815	--
4	Total Dissolved Solids	mg/l	IS 3025 (Part 16)	526	500(2000)
5	Carbonates as $CaCO_3$	mg/l	IS 3025 (Part-23)	0	500(2000)
6	Bicarbonates as HCO_3	mg/l	IS 3025 (Part-23)	190	200(600)
7	Chlorides as Cl	mg/l	IS 3025 (Part 32)	114.7	200(600)
8	Mercury as Hg	mg/l	APHA 23rd 3125	<0.001	0.001(NR)
9	Arsenic as As	mg/l	APHA 23rd 3125	<0.01	0.01(0.05)
10	Lead as Pb	mg/l	APHA 23rd 3125	<0.01	0.01(NR)
11	Chromium as Cr	mg/l	APHA 23rd 3125	<0.05	0.05(NR)
12	Cadmium as Cd	mg/l	APHA 23rd 3125	<0.003	0.003(0.003)
13	Total Alkalinity as $CaCO_3$	mg/l	IS 3025 (Part-23)	190	200(600)
14	Calcium as Ca	mg/l	IS 3025 (part	49.2	75(200)
15	Magnesium as Mg	mg/l	IS 3025 (Part	21.7	30(100)
16	Sodium as Na	mg/l	APHA 23rd (3500 Na)	86.4	--
17	Potassium as K	mg/l	APHA 23rd (3500 K)	5.3	--
18	Sulphates as SO_4	mg/l	IS 3025 (part-24)	43.9	200(400)
19	Nitrates as NO_3	mg/l	APHA 23rd (4500)	9.2	45(NR)

Dr. SubbaReddyMallampati
Group Leader-Environment

Vimta Labs Limited
Registered Office
142, IDA Phase II, Cherlapally
Hyderabad-500 051,Telangana, India
T : +91 40 2726 4141
F : +91 40 2726 3657

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(CHAUDHARY CHARAN SINGH INTERNATIONAL AIRPORT),AMAUSI, LUCKNOW, UTTARPRADESH-226009

Report Number : VLL/VLS/21/07984/012
Issued Date : 2021.10.07
P. Order Ref : 5700291869
P.O. Date : 13.10.2020

SAMPLE PARTICULARS : **Ground Water Sample at Pump House No.1 Near CCR Room for Terminal-1**

TEST REPORT

Sr.No	Parameter	UoM	Method of Testing	Results	Limits as per IS 10500 : 2012
20	Phosphates as PO_4	mg/l	APHA 23rd (4500 –P D)	<0.01	--
21	Barium as Ba	mg/l	APHA 23rd 3125	0.23	0.7(NR)
22	Fluoride as F	mg/l	APHA 23rd (4500)	0.6	1.0(1.5)
23	Cobalt as Co	mg/l	APHA 23rd 3125	<0.01	--
24	Copper as Cu	mg/l	APHA 23rd 3125	<0.01	0.05(1.5)
25	Manganese as Mn	mg/l	APHA 23rd 3125	0.02	0.1(0.3)
26	Nickel as Ni	mg/l	APHA 23rd 3125	<0.01	0.02(NR)
27	Total Hardness as $CaCO_3$	mg/l	IS 3025 (Part-21)	212.3	200(600)
28	Iron as Fe	mg/l	APHA 23rd 3125	0.06	1.0
29	Silica as SiO_2	mg/l	APHA 23rd (4500 – SiO_2)	1.6	--

Dr. SubbaReddyMallampati
Group Leader-Environment

Vimta Labs Limited
Registered Office
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T : +91 40 2726 4141
F : +91 40 2726 3657

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UTTARPRADESH-226009

Report Number : VLL/VLS/21/07984/013
Issued Date : 2021.10.07
P. Order Ref : 5700291869
P.O. Date : 13.10.2020

SAMPLE PARTICULARS : **Ground Water Sample at Pump House No.2 Near STP Plant for Terminal-1**

Frequency Of Sampling	:	One Grab sample in a Quarter
Month of Sampling	:	**SEPTEMBER 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	:	As per Work Order
Sample Collected On	:	02.09.2021
Analysis Start Date	:	04.09.2021
Analysis Completion Date	:	14.09.2021
Sample collected by Vimta Labs Ltd.,		

TEST REPORT

Sr.No	Parameter	UoM	Method of Testing	Results	Limits as per IS 10500 : 2012
1	pH	--	IS 3025 (Part-11)	7.29	6.5-8.5 (NR)
2	Salinity	ppt	APHA 23rd (2520B)	0.23	--
3	Conductivity	µs/cm	APHA 23rd (2510B)	990	--
4	Total Dissolved Solids	mg/l	IS 3025 (Part 16)	628	500(2000)
5	Carbonates as $CaCO_3$	mg/l	IS 3025 (Part-23)	0	500(2000)
6	Bicarbonates as HCO_3	mg/l	IS 3025 (Part-23)	150	200(600)
7	Chlorides as Cl	mg/l	IS 3025 (Part 32)	125.3	200(600)
8	Mercury as Hg	mg/l	APHA 23rd 3125	<0.001	0.001(NR)
9	Arsenic as As	mg/l	APHA 23rd 3125	<0.01	0.01(0.05)
10	Lead as Pb	mg/l	APHA 23rd 3125	<0.01	0.01(NR)
11	Chromium as Cr	mg/l	APHA 23rd 3125	<0.05	0.05(NR)
12	Cadmium as Cd	mg/l	APHA 23rd 3125	<0.003	0.003(0.003)
13	Total Alkalinity as $CaCO_3$	mg/l	IS 3025 (Part-23)	150	200(600)
14	Calcium as Ca	mg/l	IS 3025 (part	41.6	75(200)
15	Magnesium as Mg	mg/l	IS 3025 (Part	19.5	30(100)
16	Sodium as Na	mg/l	APHA 23rd (3500 Na)	94.3	--
17	Potassium as K	mg/l	APHA 23rd (3500 K)	3.7	--
18	Sulphates as SO_4	mg/l	IS 3025 (part-24)	52.6	200(400)
19	Nitrates as NO_3	mg/l	APHA 23rd (4500)	16.3	45(NR)
20	Phosphates as PO_4	mg/l	APHA 23rd (4500 –P D)	<0.01	--

Dr. SubbaReddyMallampati
Group Leader-Environment

Vimta Labs Limited
Registered Office
142, IDA Phase II, Cherlapally
Hyderabad-500 051,Telangana, India
T : +91 40 2726 4141
F : +91 40 2726 3657

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

Report Number : VLL/VLS/21/07984/013
Issued Date : 2021.10.07
P. Order Ref : 5700291869
P.O. Date : 13.10.2020

SAMPLE PARTICULARS : **Ground Water Sample at Pump House No.2 Near STP Plant for Terminal-1**

TEST REPORT

Sr.No	Parameter	UoM	Method of Testing	Results	Limits as per IS 10500 : 2012
21	Barium as Ba	mg/l	APHA 23rd 3125	0.17	0.7(NR)
22	Fluoride as F	mg/l	APHA 23rd (4500)	0.5	1.0(1.5)
23	Cobalt as Co	mg/l	APHA 23rd 3125	<0.01	--
24	Copper as Cu	mg/l	APHA 23rd 3125	<0.01	0.05(1.5)
25	Manganese as Mn	mg/l	APHA 23rd 3125	0.01	0.1(0.3)
26	Nickel as Ni	mg/l	APHA 23rd 3125	<0.01	0.02(NR)
27	Total Hardness as $CaCO_3$	mg/l	IS 3025 (Part-21)	176.7	200(600)
28	Iron as Fe	mg/l	APHA 23rd 3125	0.05	1.0
29	Silica as SiO_2	mg/l	APHA 23rd (4500 – SiO_2)	2.3	--

Dr. SubbaReddyMallampati
Group Leader-Environment

Vimta Labs Limited
Registered Office
142, IDA Phase II, Cherlapally
Hyderabad-500 051,Telangana, India
T : +91 40 2726 4141
F : +91 40 2726 3657

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UTTARPRADESH-226009

Report Number : VLL/VLS/21/07984/014
Issued Date : 2021.10.07
P. Order Ref : 5700291869
P.O. Date : 13.10.2020

SAMPLE PARTICULARS : Ground Water Sample at Pump House No.3 Near ATC building

Frequency Of Sampling	:	One Grab sample in a Quarter
Month of Sampling	:	**SEPTEMBER 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	:	As per IS 10500:2012
Sample Collected On	:	02.09.2021
Analysis Start Date	:	04.09.2021
Analysis Completion Date	:	12.06.2021
Sample collected by Vimta Labs Ltd.,		

TEST REPORT

Sr.No	Parameter	UoM	Method of Testing	Results	Limits as per IS 10500 : 2012
1	pH	--	IS 3025 (Part-11)	7.47	6.5-8.5 (NR)
2	Salinity	ppt	APHA 23rd (2520B)	0.19	--
3	Conductivity	µs/cm	APHA 23rd (2510B)	847	--
4	Total Dissolved Solids	mg/l	IS 3025 (Part 16)	510	500(2000)
5	Carbonates as $CaCO_3$	mg/l	IS 3025 (Part-23)	0	500(2000)
6	Bicarbonates as HCO_3	mg/l	IS 3025 (Part-23)	210	200(600)
7	Chlorides as Cl	mg/l	IS 3025 (Part 32)	103.8	200(600)
8	Mercury as Hg	mg/l	APHA 23rd 3125	<0.001	0.001(NR)
9	Arsenic as As	mg/l	APHA 23rd 3125	<0.01	0.01(0.05)
10	Lead as Pb	mg/l	APHA 23rd 3125	<0.01	0.01(NR)
11	Chromium as Cr	mg/l	APHA 23rd 3125	<0.05	0.05(NR)
12	Cadmium as Cd	mg/l	APHA 23rd 3125	<0.003	0.003(0.003)
13	Total Alkalinity as $CaCO_3$	mg/l	IS 3025 (Part-23)	210	200(600)
14	Calcium as Ca	mg/l	IS 3025 (part	55.3	75(200)
15	Magnesium as Mg	mg/l	IS 3025 (Part	23.5	30(100)
16	Sodium as Na	mg/l	APHA 23rd (3500 Na)	83.7	--
17	Potassium as K	mg/l	APHA 23rd (3500 K)	7.1	--
18	Sulphates as SO_4	mg/l	IS 3025 (part-24)	58.6	200(400)
19	Nitrates as NO_3	mg/l	APHA 23rd (4500)	8.9	45(NR)
20	Phosphates as PO_4	mg/l	APHA 23rd (4500 –P D)	<0.01	--

Dr. SubbaReddyMallampati
Group Leader-Environment

Vimta Labs Limited
Registered Office
142, IDA Phase II, Cherlapally
Hyderabad-500 051,Telangana, India
T : +91 40 2726 4141
F : +91 40 2726 3657

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(CHAUDHARY CHARAN SINGH INTERNATIONAL AIRPORT),AMAUSI, LUCKNOW,
UTTARPRADESH-226009

Report Number : VLL/VLS/21/07984/014
Issued Date : 2021.10.07
P. Order Ref : 5700291869
P.O. Date : 13.10.2020

SAMPLE PARTICULARS : Ground Water Sample at Pump House No.3 Near ATC building

TEST REPORT

Sr.No	Parameter	UoM	Method of Testing	Results	Limits as per IS 10500 : 2012
21	Barium as Ba	mg/l	APHA 23rd 3125	0.28	0.7(NR)
22	Fluoride as F	mg/l	APHA 23rd (4500)	0.5	1.0(1.5)
23	Cobalt as Co	mg/l	APHA 23rd 3125	<0.01	--
24	Copper as Cu	mg/l	APHA 23rd 3125	<0.01	0.05(1.5)
25	Manganese as Mn	mg/l	APHA 23rd 3125	0.03	0.1(0.3)
26	Nickel as Ni	mg/l	APHA 23rd 3125	<0.01	0.02(NR)
27	Total Hardness as $CaCO_3$	mg/l	IS 3025 (Part-21)	235.0	200(600)
28	Iron as Fe	mg/l	APHA 23rd 3125	0.07	1.0
29	Silica as SiO_2	mg/l	APHA 23rd (4500 – SiO_2)	2.9	--

Dr. SubbaReddyMallampati
Group Leader-Environment

Vimta Labs Limited
Registered Office
142, IDA Phase II, Cherlapally
Hyderabad-500 051,Telangana, India
T : +91 40 2726 4141
F : +91 40 2726 3657

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(CHAUDHARY CHARAN SINGH INTERNATIONAL AIRPORT),AMAUSI, LUCKNOW, UTTARPRADESH-226009

Report Number : VLL/VLS/21/07984/015
Issued Date : 2021.10.07
P. Order Ref : 5700291869
P.O. Date : 13.10.2020

SAMPLE PARTICULARS : Ground Water Sample at Pump House No.4 Near DGCA Building

Frequency Of Sampling	:	One Grab sample in a Quarter
Month of Sampling	:	**SEPTEMBER 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	:	As per IS 10500:2012
Sample Collected On	:	02.09.2021
Analysis Start Date	:	04.09.2021
Analysis Completion Date	:	14.09.2021
Sample collected by Vimta Labs Ltd.,		

TEST REPORT

Sr.No	Parameter	UoM	Method of Testing	Results	Limits as per IS 10500 : 2012
1	pH	--	IS 3025 (Part-11)	7.46	6.5-8.5 (NR)
2	Salinity	ppt	APHA 23rd (2520B)	0.24	--
3	Conductivity	µs/cm	APHA 23rd (2510B)	902	--
4	Total Dissolved Solids	mg/l	IS 3025 (Part 16)	548	500(2000)
5	Carbonates as $CaCO_3$	mg/l	IS 3025 (Part-23)	0	500(2000)
6	Bicarbonates as HCO_3	mg/l	IS 3025 (Part-23)	221	200(600)
7	Chlorides as Cl	mg/l	IS 3025 (Part 32)	142.3	200(600)
8	Mercury as Hg	mg/l	APHA 23rd 3125	<0.001	0.001(NR)
9	Arsenic as As	mg/l	APHA 23rd 3125	<0.01	0.01(0.05)
10	Lead as Pb	mg/l	APHA 23rd 3125	<0.01	0.01(NR)
11	Chromium as Cr	mg/l	APHA 23rd 3125	<0.05	0.05(NR)
12	Cadmium as Cd	mg/l	APHA 23rd 3125	<0.003	0.003(0.003)
13	Total Alkalinity as $CaCO_3$	mg/l	IS 3025 (Part-23)	221	200(600)
14	Calcium as Ca	mg/l	IS 3025 (part	61.7	75(200)
15	Magnesium as Mg	mg/l	IS 3025 (Part	30.6	30(100)
16	Sodium as Na	mg/l	APHA 23rd (3500 Na)	76.8	--
17	Potassium as K	mg/l	APHA 23rd (3500 K)	6.4	--
18	Sulphates as SO_4	mg/l	IS 3025 (part-24)	38.7	200(400)
19	Nitrates as NO_3	mg/l	APHA 23rd (4500)	10.6	45(NR)
20	Phosphates as PO_4	mg/l	APHA 23rd (4500 –P D)	<0.01	--

Dr. SubbaReddyMallampati
Group Leader-Environment

Vimta Labs Limited
Registered Office
142, IDA Phase II, Cherlapally
Hyderabad-500 051,Telangana, India
T : +91 40 2726 4141
F : +91 40 2726 3657

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ISSUED TO:
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UTTARPRADESH-226009

Report Number : VLL/VLS/21/07984/015
Issued Date : 2021.10.07
P. Order Ref : 5700291869
P.O. Date : 13.10.2020

SAMPLE PARTICULARS : Ground Water Sample at Pump House No.4 Near DGCA Building

TEST REPORT

Sr.No	Parameter	UoM	Method of Testing	Results	Limits as per IS 10500 : 2012
21	Barium as Ba	mg/l	APHA 23rd 3125	0.12	0.7(NR)
22	Fluoride as F	mg/l	APHA 23rd (4500)	0.9	1.0(1.5)
23	Cobalt as Co	mg/l	APHA 23rd 3125	<0.01	--
24	Copper as Cu	mg/l	APHA 23rd 3125	<0.01	0.05(1.5)
25	Manganese as Mn	mg/l	APHA 23rd 3125	0.01	0.1(0.3)
26	Nickel as Ni	mg/l	APHA 23rd 3125	<0.01	0.02(NR)
27	Total Hardness as $CaCO_3$	mg/l	IS 3025 (Part-21)	282.6	200(600)
28	Iron as Fe	mg/l	APHA 23rd 3125	0.08	1.0
29	Silica as SiO_2	mg/l	APHA 23rd (4500 – SiO_2)	2.1	--

Dr. SubbaReddyMallampati
Group Leader-Environment

Vimta Labs Limited
Registered Office
142, IDA Phase II, Cherlapally
Hyderabad-500 051,Telangana, India
T : +91 40 2726 4141
F : +91 40 2726 3657

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UTTAR PRADESH-226009

Report Number	:	VLL/VLS/21/07984/016
Issued Date	:	2021.10.06
P. Order Ref	:	5700291869
P.O. Date	:	13.10.2020

SAMPLE PARTICULARS : FLIGHT PATH AREA 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 2021**
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: 8th September 2021	53.9	44.1	52.8
Day-2: 9th September 2021	51.5	42.0	50.7
Day-3: 10th September 2021	52.5	43.1	51.8
Day-4: 11th September 2021	53.1	43.5	51.4
Day-5: 12th September 2021	51.8	43.1	50.3
Day-6: 13th September 2021	52.6	42.0	51.3
Day-7: 14th September 2021	53.0	43.4	52.0

Dr. SubbaReddy Mallampati
Group Leader-Environment

Vimta Labs Limited
Registered Office
142, IDA Phase II, Cherlapally
Hyderabad-500 051,Telangana, India
T : +91 40 2726 4141
F : +91 40 2726 3657

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UTTAR PRADESH-226009

Report Number	:	VLL/VLS/21/07984/017
Issued Date	:	2021.10.06
P. Order Ref	:	5700291869
P.O. Date	:	13.10.2020

SAMPLE PARTICULARS : FLIGHT PATH AREA 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 2021**
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: 15th September 2021	51.5	43.0	50.1
Day-2: 16th September 2021	53.2	43.5	52.8
Day-3: 17th September 2021	52.7	44.2	51.5
Day-4: 18th September 2021	51.4	42.7	50.2
Day-5: 19th September 2021	52.8	44.0	51.1
Day-6: 20th September 2021	53.0	43.4	52.0
Day-7: 21st September 2021	52.2	42.7	50.8

Dr. SubbaReddy Mallampati
Group Leader-Environment

Vimta Labs Limited
Registered Office
142, IDA Phase II, Cherlapally
Hyderabad-500 051,Telangana, India
T : +91 40 2726 4141
F : +91 40 2726 3657

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Report Number	:	VLL/VLS/21/07984/018
Issued Date	:	2021.10.06
P. Order Ref	:	5700291869
P.O. Date	:	13.10.2020

SAMPLE PARTICULARS : FLIGHT PATH AREA 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 2021**
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: 22nd September 2021	51.6	42.1	50.3
Day-2: 23rd September 2021	53.2	44.1	52.0
Day-3: 24th September 2021	52.8	43.8	51.1
Day-4: 25th September 2021	51.3	42.4	50.7
Day-5: 26th September 2021	53.1	44.1	52.3
Day-6: 27th September 2021	52.0	43.7	51.3
Day-7: 28th September 2021	51.8	41.8	50.6

Dr. SubbaReddy Mallampati
Group Leader-Environment

Vimta Labs Limited
Registered Office
142, IDA Phase II, Cherlapally
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Report Number	:	VLL/VLS/21/07984/019
Issued Date	:	2021.10.06
P. Order Ref	:	5700291869
P. Order Date	:	13.10.2020

SAMPLE PARTICULARS	:	**DIESEL GENERATOR EMISSION MONITORING**
PLACE OF DG SET INSTALLED	:	**SCADA Building**
Sampling Date	:	2021.09.22
Frequency of Monitoring	:	Half Yearly
Monitoring Month	:	SEPTEMBER 2021
Sample Registration Date	:	2021.09.24

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	289	317	272	290	302	--
5	Velocity of the Flue gas	m/Sec		13.78	14.4	12.97	13.18	14.00	--
6	Volumetric Flow rate	Nm^3/hr		11365	11561	11298	11116	11554	--
Chemical Parameters									
7	Sulphur Dioxide	mg/Nm^3	USEPA CTM 30&34	68	81	72	78	82	--
8	Carbon Monoxide @ 15% O2	mg/Nm^3		140.30	124.81	149.73	123.49	106.67	≤3.5
9	Carbon Monoxide @ 15% O2	gr/kw-hr		**2.181**	**1.825**	**2.212**	**1.800**	**1.603**	
10	Oxides of Nitrogen@ 15% O2	mg/Nm3		230.50	153.78	212.95	228.23	155.78	NOx + HC ≤ 4.0
	Oxides of Nitrogen@ 15% O2	gr/kw-hr		**3.584**	**2.248**	**3.146**	**3.320**	**2.341**	
11	Hydro Carbons as CH4@ 15% O2	mg/Nm^3		17.52	32.62	40.23	27.44	26.34	
	Hydro Carbons as CH4@ 15% O2	gr/kw-hr		**0.272**	**0.477**	**0.594**	**0.400**	**0.396**	
12	Particulate Matter@15% O2	mg/Nm^3	USEPA M-5	9.88	8.74	10.55	9.61	7.88	≤ 0.2
	Particulate Matter @ 15% O2	gr/kw-hr		**0.154**	**0.128**	**0.156**	**0.140**	**0.118**	

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

Dr. SubbaReddy Mallampati
Group Leader-Environment

Vimta Labs Limited
Registered Office
142, IDA Phase II, Cherlapally
Hyderabad-500 051,Telangana, India
T : +91 40 2726 4141
F : +91 40 2726 3657

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UTTAR PRADESH-226009S

Report Number	:	VLL/VLS/21/07984/019
Issued Date	:	2021.10.06
P. Order Ref	:	5700291869
P. Order Date	:	13.10.2020

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% O2	mg/Nm^3		158.67	109.77	≤3.5
9	Carbon Monoxide @ 15% O2	gr/kw-hr		**1.602**	**1.215**	
10	Oxides of Nitrogen@ 15% O2	mg/Nm3		249.66	163.43	NOx + HC ≤ 4.0
	Oxides of Nitrogen@ 15% O2	gr/kw-hr		**2.521**	**1.809**	
11	Hydro Carbons as CH4@ 15% O2	mg/Nm^3		49.17	29.16	
	Hydro Carbons as CH4@ 15% O2	gr/kw-hr		**0.496**	**0.323**	
12	Particulate Matter@15% O2	mg/Nm^3	USEPA M-5	13.41	12.06	≤0.2
	Particulate Matter @ 15% O2	gr/kw-hr		**0.135**	**0.134**	

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

Dr. SubbaReddy Mallampati
Group Leader-Environment

Vimta Labs Limited
Registered Office
142, IDA Phase II, Cherlapally
Hyderabad-500 051,Telangana, India
T : +91 40 2726 4141
F : +91 40 2726 3657

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Report Number	:	VLL/VLS/21/07984/019
Issued Date	:	2021.10.06
P. Order Ref	:	5700291869
P. Order Date	:	13.10.2020

SAMPLE PARTICULARS	:	**DIESEL GENERATOR EMISSION MONITORING**
PLACE OF DG SET INSTALLED	:	**ATC Technical Block**
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	-	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	^0C	USEPA M-2	182	174	--
5	Velocity of the Flue gas	m/Sec		8.89	8.80	--
6	Volumetric Flow rate	Nm^3/hr		2960	2989	--
Chemical Parameters						
7	Sulphur Dioxide	mg/Nm^3	USEPA CTM30&34	60	54	--
8	Carbon Monoxide @ 15% O2	mg/Nm^3		149.73	123.49	≤ 3.5
9	Carbon Monoxide @ 15% O2	gr/kw-hr		**2.328**	**1.797**	
10	Oxides of Nitrogen@ 15% O2	mg/Nm3	USEPA CTM30&34	187.25	164.06	NOx + HC ≤ 4.0
	Oxides of Nitrogen@ 15% O2	gr/kw-hr		**2.912**	**2.461**	
11	Hydro Carbons as CH4@ 15% O2	mg/Nm^3	USEPA CTM30&34	33.52	32.59	
	Hydro Carbons as CH4@ 15% O2	gr/kw-hr		**0.521**	**0.474**	
12	Particulate Matter@15% O2	mg/Nm^3	USEPA M-5	10.93	12.06	≤ 0.2
	Particulate Matter @ 15% O2	gr/kw-hr		**0.161**	**0.176**	

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

Dr. SubbaReddy Mallampati
Group Leader-Environment

Vimta Labs Limited
Registered Office
142, IDA Phase II, Cherlapally
Hyderabad-500 051,Telangana, India
T : +91 40 2726 4141
F : +91 40 2726 3657

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Report Number : VLL/VLS/21/07984/019
Issued Date : 2021.10.06
P. Order Ref : 5700291869
P. Order Date : 13.10.2020

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	^0C	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% O2	mg/Nm^3		104.59	92.75	≤3.5
9	Carbon Monoxide @ 15% O2	gr/kw-hr		**1.260**	**1.140**	
10	Oxides of Nitrogen@ 15% O2	mg/Nm3		136.58	104.64	**NOx + HC ≤ 4.0**
	Oxides of Nitrogen@ 15% O2	gr/kw-hr		**1.645**	**1.286**	
11	Hydro Carbons as CH4@ 15% O2	mg/Nm^3		26.82	20.11	
	Hydro Carbons as CH4@ 15% O2	gr/kw-hr		**0.323**	**0.247**	
12	Particulate Matter@15% O2	mg/Nm^3	USEPA M-5	13.24	15.01	≤ 0.2
	Particulate Matter @ 15% O2	gr/kw-hr		**0.160**	**0.184**	

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

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Group Leader-Environment

Vimta Labs Limited
Registered Office
142, IDA Phase II, Cherlapally
Hyderabad-500 051,Telangana, India
T : +91 40 2726 4141
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UTTAR PRADESH-226009S

Report Number	:	VLL/VLS/21/07984/019
Issued Date	:	2021.10.06
P. Order Ref	:	5700291869
P. Order Date	:	13.10.2020

SAMPLE PARTICULARS	:	**DIESEL GENERATOR EMISSION MONITORING**
PLACE OF DG SET INSTALLED	:	**MSSR Building**
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	* 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	231	--
5	Velocity of the Flue gas	m/Sec		9.42	--
6	Volumetric Flow rate	Nm^3/hr		4632	--
Chemical Parameters					
7	Sulphur Dioxide	mg/Nm^3	USEPA CTM30&34	52	--
8	Carbon Monoxide @ 15% O2	mg/Nm^3		62.11	≤ 3.5
9	Carbon Monoxide @ 15% O2	gr/kw-hr		1.378	
10	Oxides of Nitrogen@ 15% O2	mg/Nm3		87.15	NOx + HC ≤ 4.0
	Oxides of Nitrogen@ 15% O2	gr/kw-hr		**1.933**	
11	Hydro Carbons as CH4@ 15% O2	mg/Nm^3		24.58	
	Hydro Carbons as CH4@ 15% O2	gr/kw-hr		**0.545**	
12	Particulate Matter@15% O2	mg/Nm^3	USEPA M-5	7.88	≤ 0.2
	Particulate Matter @ 15% O2	gr/kw-hr		**0.175**	

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

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Group Leader-Environment

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Report Number	:	VLL/VLS/21/07984/020
Issued Date	:	2021.10.08
P. Order Ref	:	5700291869
P.O. Date	:	13.10.2020

SAMPLE PARTICULARS : **Soil Sample Collected at Near Terminal-1 Building**

Frequency Of Sampling	:	One Grab sample in a Six Months
Month of Sampling	:	**SEPTEMBER 2021**
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	:	16.09.2021
Analysis Start Date	:	20.09.2021
Analysis Completion Date	:	29.09.2021
Sample collected by Vimta Labs Ltd.,		

TEST REPORT

Sr.No	Parameters	UoM	Result
1	Texture	--	
a	Sand	%	53
b	Silt	%	19
c	Clay	%	28
2	Textural Class	--	Sandy clay
3	Bulk Density	g/cc	1.36
4	pH (1:5 Aq.Extraction)	--	7.23
5	Conductivity (1:5 Aq.Extraction)	µS/cm	175
6	Exchangeable Calcium as Ca	mg/kg	3725
7	Exchangeable Magnesium as Mg	mg/kg	980
8	Exchangeable Sodium as Na	mg/kg	98.7
9	Sodium Absorption Ratio (SAR)	----	0.17
10	Available Nitrogen as N	Kg/hac	64.5
11	Available Phosphorous as P	Kg/hac	35.0
12	Available Potassium as K	Kg/hac	118.5
13	Organic Carbon	%	0.28
14	Organic Matter	%	0.49
15	Water Soluble Chlorides as Cl	mg/kg	74.5

Dr. SubbaReddyMallampati
Group Leader-Environment

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Report Number	:	VLL/VLS/21/07984/020
Issued Date	:	2021.10.08
P. Order Ref	:	5700291869
P.O. Date	:	13.10.2020

SAMPLE PARTICULARS : **Soil Sample Collected at Near Terminal-1 Building**

Frequency Of Sampling	:	One Grab sample in a Six Months
Month of Sampling	:	**SEPTEMBER 2021**
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	:	16.09.2021
Analysis Start Date	:	20.09.2021
Analysis Completion Date	:	29.09.2021
Sample collected by Vimta Labs Ltd.,		

TEST REPORT

Sr.No	Parameters	UoM	Result
16	Water Soluble Sulphates as SO4	mg/kg	36.4
17	Aluminum	%	1.24
18	Total Iron	%	2.16
19	Manganese	mg/kg	320
20	Boron	mg/kg	96.3
21	Zinc	mg/kg	62.8
22	Total Chromium as Cr	mg/kg	28.2
23	Lead as Pb	mg/kg	5.6
24	Nickel as Ni	mg/kg	12.9
25	Arsenic as As	mg/kg	<0.1
26	Mercury as Hg	mg/kg	<0.1
27	Cadmium as Cd	mg/kg	<0.1
28	Exchangeable Sodium	meq/100g	0.43
29	Exchangeable Potassium	meq/100g	0.14
30	Exchangeable Calcium	meq/100g	18.63
31	Exchangeable Magnesium	meq/100g	8.17
32	Cation Exchange Capacity	meq/100g	27.36

Dr. SubbaReddyMallampati
Group Leader-Environment

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Report Number : VLL/VLS/21/07984/021
Issued Date : 2021.10.08
P. Order Ref : 5700291869
P. O. Date : 13.10.2020

SAMPLE PARTICULARS : **Soil Sample Collected at Near Terminal-2 Building**

Frequency Of Sampling	:	One Grab sample in a Six Months
Month of Sampling	:	**SEPTEMBER 2021**
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	:	16.09.2021
Analysis Start Date	:	20.09.2021
Analysis Completion Date	:	29.09.2021
Sample collected by Vimta Labs Ltd.,		

TEST REPORT

Sr.No	Parameters	UoM	Result
1	Texture	--	
a	Sand	%	49
b	Silt	%	15
c	Clay	%	36
2	Textural Class	--	Sandy clay
3	Bulk Density	g/cc	1.45
4	pH (1:5 Aq. Extraction)	--	6.95
5	Conductivity (1:5 Aq. Extraction)	µS/cm	218
6	Exchangeable Calcium as Ca	mg/kg	4217
7	Exchangeable Magnesium as Mg	mg/kg	1053
8	Exchangeable Sodium as Na	mg/kg	82.4
9	Sodium Absorption Ratio (SAR)	----	0.13
10	Available Nitrogen as N	Kg/hac	39.8
11	Available Phosphorous as P	Kg/hac	53.3
12	Available Potassium as K	Kg/hac	140.5
13	Organic Carbon	%	0.16
14	Organic Matter	%	0.28
15	Water Soluble Chlorides as Cl	mg/kg	48.6

Dr. SubbaReddyMallampati
Group Leader-Environment

Vimta Labs Limited
Registered Office
142, IDA Phase II, Cherlapally
Hyderabad-500 051,Telangana, India
T : +91 40 2726 4141
F : +91 40 2726 3657

Vimta
Driven by Quality. Inspired by Science.

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

Report Number : VLL/VLS/21/07984/021
Issued Date : 2021.10.08
P. Order Ref : 5700291869
P.O. Date : 13.10.2020

SAMPLE PARTICULARS : **Soil Sample Collected at Near Terminal-2 Building**

Frequency Of Sampling	:	One Grab sample in a Six Months
Month of Sampling	:	**SEPTEMBER 2021**
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	:	16.09.2021
Analysis Start Date	:	20.09.2021
Analysis Completion Date	:	29.09.2021
Sample collected by Vimta Labs Ltd.,		

TEST REPORT

Sr.No	Parameters	UoM	Result
16	Water Soluble Sulphates as SO4	mg/kg	29.4
17	Aluminum	%	1.65
18	Total Iron	%	2.89
19	Manganese	mg/kg	434
20	Boron	mg/kg	74.5
21	Zinc	mg/kg	46.7
22	Total Chromium as Cr	mg/kg	19.6
23	Lead as Pb	mg/kg	6.7
24	Nickel as Ni	mg/kg	10.5
25	Arsenic as As	mg/kg	<0.1
26	Mercury as Hg	mg/kg	<0.1
27	Cadmium as Cd	mg/kg	<0.1
28	Exchangeable Sodium	meq/100g	0.36
29	Exchangeable Potassium	meq/100g	0.16
30	Exchangeable Calcium	meq/100g	21.09
31	Exchangeable Magnesium	meq/100g	8.78
32	Cation Exchange Capacity	meq/100g	30.38

Dr. SubbaReddyMallampati
Group Leader-Environment

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

Report Number	:	VLL/VLS/21/07984/022
Issued Date	:	2021.10.08
P. Order Ref	:	5700291869
P. O. Date	:	13.10.2020

SAMPLE PARTICULARS	:	**Soil Sample Collected at Near SCADA Building**
Frequency Of Sampling	:	One Grab sample in a Six Months
Month of Sampling	:	**SEPTEMBER 2021**
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	:	16.09.2021
Analysis Start Date	:	20.09.2021
Analysis Completion Date	:	29.09.2021
Sample collected by Vimta Labs Ltd.,		

TEST REPORT

Sr.No	Parameters	UoM	Result
1	Texture	--	
a	Sand	%	56
b	Silt	%	18
c	Clay	%	26
2	Textural Class	--	Sandy Clay
3	Bulk Density	g/cc	1.28
4	pH (1:5 Aq. Extraction)	--	7.28
5	Conductivity (1:5 Aq. Extraction)	µS/cm	154
6	Exchangeable Calcium as Ca	mg/kg	3562
7	Exchangeable Magnesium as Mg	mg/kg	843
8	Exchangeable Sodium as Na	mg/kg	52.3
9	Sodium Absorption Ratio (SAR)	----	0.09
10	Available Nitrogen as N	Kg/hac	57.6
11	Available Phosphorous as P	Kg/hac	44.1
12	Available Potassium as K	Kg/hac	128.4
13	Organic Carbon	%	0.27
14	Organic Matter	%	0.46
15	Water Soluble Chlorides as Cl	mg/kg	53.4

Dr. SubbaReddyMallampati
Group Leader-Environment

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Registered Office
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(CHAUDHARY CHARAN SINGH INTERNATIONAL AIRPORT),AMAUSI, LUCKNOW,
UTTARPRADESH-226009

Report Number : VLL/VLS/21/07984/022
Issued Date : 2021.10.08
P. Order Ref : 5700291869
P.O. Date : 13.10.2020

SAMPLE PARTICULARS : **Soil Sample Collected at Near SCADA Building**

Frequency Of Sampling	:	One Grab sample in a Six Months
Month of Sampling	:	**SEPTEMBER 2021**
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	:	16.09.2021
Analysis Start Date	:	20.09.2021
Analysis Completion Date	:	29.09.2021
Sample collected by Vimta Labs Ltd.,		

TEST REPORT

Sr.No	Parameters	UoM	Result
16	Water Soluble Sulphates as SO4	mg/kg	47.5
17	Aluminum	%	1.42
18	Total Iron	%	2.15
19	Manganese	mg/kg	378
20	Boron	mg/kg	67.6
21	Zinc	mg/kg	72.4
22	Total Chromium as Cr	mg/kg	21.5
23	Lead as Pb	mg/kg	4.8
24	Nickel as Ni	mg/kg	13.3
25	Arsenic as As	mg/kg	<0.1
26	Mercury as Hg	mg/kg	<0.1
27	Cadmium as Cd	mg/kg	<0.1
28	Exchangeable Sodium	meq/100g	0.23
29	Exchangeable Potassium	meq/100g	0.17
30	Exchangeable Calcium	meq/100g	17.81
31	Exchangeable Magnesium	meq/100g	7.03
32	Cation Exchange Capacity	meq/100g	25.23

Dr. SubbaReddyMallampati
Group Leader-Environment

Vimta Labs Limited
Registered Office
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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,
UTTAR PRADESH-226009

Report Number	:	VLL/VLS/21/07984/023
Issued Date	:	2021.10.08
P. Order Ref	:	5700291869
P. O. Date	:	13.10.2020

SAMPLE PARTICULARS : **Soil Sample Collected at Near STP Plant**

Frequency Of Sampling	:	One Grab sample in a Six Months
Month of Sampling	:	**SEPTEMBER 2021**
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	:	16.09.2021
Analysis Start Date	:	20.09.2021
Analysis Completion Date	:	29.09.2021
Sample collected by Vimta Labs Ltd.,		

TEST REPORT

Sr.No	Parameters	UoM	Result
1	Texture	--	
a	Sand	%	48
b	Silt	%	14
c	Clay	%	38
2	Textural Class	--	Sandy clay
3	Bulk Density	g/cc	1.41
4	pH (1:5 Aq. Extraction)	--	7.36
5	Conductivity (1:5 Aq. Extraction)	µS/cm	298
6	Exchangeable Calcium as Ca	mg/kg	3956
7	Exchangeable Magnesium as Mg	mg/kg	1125
8	Exchangeable Sodium as Na	mg/kg	101.2
9	Sodium Absorption Ratio (SAR)	----	0.18
10	Available Nitrogen as N	Kg/hac	49.2
11	Available Phosphorous as P	Kg/hac	65.9
12	Available Potassium as K	Kg/hac	151.5
13	Organic Carbon	%	0.21
14	Organic Matter	%	0.36
15	Water Soluble Chlorides as Cl	mg/kg	63.7

Dr. SubbaReddyMallampati
Group Leader-Environment

Vimta Labs Limited
Registered Office
142, IDA Phase II, Cherlapally
Hyderabad-500 051,Telangana, India
T : +91 40 2726 4141
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/21/07984/023
Issued Date	:	2021.10.08
P. Order Ref	:	5700291869
P.O. Date	:	13.10.2020

SAMPLE PARTICULARS : **Soil Sample Collected at Near STP Plant**

Frequency Of Sampling	:	One Grab sample in a Six Months
Month of Sampling	:	**SEPTEMBER 2021**
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	:	16.09.2021
Analysis Start Date	:	20.09.2021
Analysis Completion Date	:	29.09.2021
Sample collected by Vimta Labs Ltd.,		

TEST REPORT

Sr.No	Parameters	UoM	Result
16	Water Soluble Sulphates as SO4	mg/kg	32.8
17	Aluminum	%	1.21
18	Total Iron	%	1.96
19	Manganese	mg/kg	346
20	Boron	mg/kg	82.7
21	Zinc	mg/kg	53.5
22	Total Chromium as Cr	mg/kg	16.4
23	Lead as Pb	mg/kg	8.2
24	Nickel as Ni	mg/kg	9.7
25	Arsenic as As	mg/kg	<0.1
26	Mercury as Hg	mg/kg	<0.1
27	Cadmium as Cd	mg/kg	<0.1
28	Exchangeable Sodium	meq/100g	0.44
29	Exchangeable Potassium	meq/100g	0.18
30	Exchangeable Calcium	meq/100g	19.78
31	Exchangeable Magnesium	meq/100g	9.38
32	Cation Exchange Capacity	meq/100g	29.77

Dr. SubbaReddyMallampati
Group Leader-Environment

ANNEXURE – 7

adani	Lucknow International Airport Limited	From : April'2021 To : September'2021
Annexure 7 – LED light installation and Solar PV installation Photographs		

ANNEXURE – 8

Kriti Jain

From:	Azharuddin Kazi
Sent:	28 May 2021 15:46
To:	rocz.lko-mef@nic.in
Cc:	'mefcc.ia3@gmail.com'; 'monitoring-ec@nic.in'; ms@uppcb.in; rocz.lko-mef@nic.in; cpcb.lucknow@gmail.com; Suresh Chandra Hota; Shalin Shah; Sunil Parate; Shravan Kumar; Kriti Jain
Subject:	EC Compliance Reports Submission_Adani Lucknow International Airport Ltd (ALIAL)-T2&T3 (Oct'20 to Mar'21)
Attachments:	Half yearly compliance report for Env. Clearance for T2-T3-ALIAL.pdf

Dear Sirs

Chaudhary Charan Singh International (CCSI) Airport, Lucknow has been granted Environmental Clearances for "Construction of Terminal Building" & "Construction of new Integrated terminal building and allied facilities" Lucknow, Uttar Pradesh vide MoEF&CC letter dtd **23rd May 2012** & **26th Sept 2018** respectively.

The Concession Agreement for Operation, Maintenance, Management & Development of Chaudhary Charan Singh International Airport, Lucknow between Airports Authority of India (AAI) and Adani Lucknow International Airport Limited (ALIAL) was signed on 14th February 2020. As per the above said Concession Agreement, with effect from the Commercial Operation Date (COD) i.e. 2nd November 2020, ALIAL is responsible to comply with all the applicable conditions, as stipulated under the issued Environmental Clearances. Under the purview of EIA notification 2006, ALIAL has already submitted its application/letter for consideration of name change from AAI to ALIAL.

In view of above, ALIAL is herewith submitting the **compliance report** for the above said Environment Clearances for the period of **October-2020 to March-2021.**

Kindly consider above submission and acknowledge.

Thanks & Regards

Azhar Kazi
Senior Manager-Environment
Adani Ahmedabad International Airport Ltd.

Mob. +91 9099917645 | Off. 079 -25555036
Azharuddin.Kazi@adani.com | www.adani.com
8th Floor, Adani Corporate House, Shantigram, Near Vaishnodevi Circle, S.G Highway, Ahmedabad – 382421, Gujarat, India

ALIAL/CAO/20-21/ Date: 27.05.2021

To

Additional Principal Chief Conservator of Forests (C)
Ministry of Environment, Forest and Climate Change (CZ),
Kendriya Bhawan,
5th Floor, Sector "H" Aliganj Lucknow -226020
Email - rocz.lko-mef@nic.in

Sub : Half yearly Compliance report for Environment Clearance for "Chaudhary Charan Singh International Airport", Lucknow.

Ref :

i. Environment clearance granted to T2 Terminal vide letter dated 23rd May 2012 bearing MoEF letter F. No. 10-18/2007-IA.III.

ii. Request for consideration of Name change in existing Environment Clearance for Terminal-2 at Chaudhary Charan Singh International Airport Lucknow from Airports Authority of India (AAI) to Adani Lucknow International Airport Limited (ALIAL) submitted vide email dtd. 24th May 2021.

iii. Environment clearance granted for "Construction of new Integrated terminal building and allied facilities" at Guraura, Aurangabad Zagir and Bhaktikhera Villages, Lucknow vide letter dated 26th Sept 2018 bearing MoEF letter No. F. No. 10-47/2017-IA.III.

iv. Application for EC transfer for "Construction of new Integrated terminal building and allied facilities" at Guraura, Aurangabad Zagir and Bhaktikhera Villages, District Lucknow, Uttar Pradesh from Airports Authority of India (AAI) to Adani Lucknow International Airport Limited (ALIAL) submitted vide letter dtd. 2nd April 2021.

Dear Sir,

Chaudhary Charan Singh International (CCSI) Airport, Lucknow has been granted Environmental Clearances for "Construction of Terminal Building" & "Construction of new Integrated terminal building and allied facilities" Lucknow, Uttar Pradesh vide MoEF&CC letter dtd 23rd May 2012 & 26th Sept 2018 respectively.

The Concession Agreement for Operation, Maintenance, Management & Development of Chaudhary Charan Singh International Airport, Lucknow between Airports Authority of India (AAI) and Adani Lucknow International Airport Limited (ALIAL) was signed on 14th February 2020. As per the above said Concession Agreement, with effect from the Commercial Operation Date (COD) i.e. 2nd November 2020, ALIAL is responsible to comply with all the applicable conditions, as stipulated under the issued Environmental Clearances. Under the purview of EIA notification 2006, ALIAL has already submitted its application/letter for consideration of name change from AAI to ALIAL.

Adani 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

In view of above, ALIAL is submitting the compliance report for the above said Environment Clearances for the period of October-2020 to March-2021 through soft copy (e-mail communication).

Kindly consider above submission and acknowledge.

Thank you,
Yours Sincerely,
For, M/s Adani Lucknow International Airport Limited

Suresh Chandra Hota
Chief Airport Officer

Encl: As above

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) Airport Authority of India.

Adani 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

ANNEXURE – 9

adani

Ref No. ALIAL/CAO/ES/21-22/0537 **Date:23.09.2021**

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, 2021 for "Chaudhary Charan Singh International Airport" Lucknow, **by M/s Adani Lucknow International Airport Limited (ALIAL)**

Ref:

i. **Consent to Operate- Renewal issued under section 21/22 of the Air (Prevention and control of Pollution) Act, 1981 to Adani Lucknow International Airport on 14th May 2021 with order no. 122245 / UPPCB / Lucknow (UPPCBRO) / CTO /air / LUCKNOW/ 2021.**

ii. **Consent to Operate- Renewal issued under section 25/26 of the Water (Prevention and control of Pollution) Act, 1974 to Adani Lucknow International Airport on 14th May 2021 with order no. 122221 / UPPCB / Lucknow (UPPCBRO) /CTO /water / LUCKNOW / 2021.**

Dear Sir,

A 24/9/21

Chaudhary Charan Singh International (CCSI) Airport, Lucknow has been granted Environmental Clearance for "Construction of Terminal Building" Lucknow, Uttar Pradesh vide dated 23rd May 2012. Application for EC transfer in the name of Adani Lucknow International Airport Ltd. (ALIAL) has been submitted vide dtd. 23rd August 2021

The Concession Agreement for Operation, Maintenance, Management & Development of Chaudhary Charan Singh International Airport, Lucknow between Airports Authority of India (AAI) and Adani Lucknow International Airport Limited (ALIAL) was signed on 14th February 2020. As per the above said Concession Agreement, with effect from the Commercial Operation Date (COD) i.e. 2nd November 2020, ALIAL is responsible to comply with all the applicable conditions, as stipulated under the issued Clearances

O/C

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

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

24-9-21

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

adani

for the financial year ending 31st March 2021. Since ALIAL has started its operation, with effect from the Commercial Operation Date (COD) i.e. 2nd November 2020, the Environment Statement (Form V) is being submitted for the period November 2020 – March 2021.

Kindly consider above submission and acknowledge.

Thank you,
Yours Sincerely,
For, M/s Adani Lucknow International Airport Limited

Suresh Chandra Hota
Chief Airport Officer

Encl: As above.

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

Adani 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

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

ANNEXURE - 10

LEGEND

- Airport Boundary
- Airside Boundary
- Key Infrastructure
- Infrastructure Under Development

TRANSPORT HANGAR
WATER STATION
TO LUCKNOW
SHAHEED PATH
TO GOMTI NAGAR
SHAHEED PATH
INDIAN METEOROLOGICAL DEPT.
CHILLAWAN VILLAGE
OLD AAI COLONY
AAI/ DGCA
PARKING
PARKING
Metro Station
ARRIVAL ROAD
DEPARTURE ROAD
STP
WATER YARD
TERMINAL 3
POWER HOUSE
PUMP HOUSE
CARGO
TERMINAL-1
TERMINAL-2
IOCL FUEL FARM
HANGAR-2
HANGAR-1
AAI CARGO FACILITY
ATC TOWER
ARFF (CAT-IV)
APRON
APRON
APRON
APRON
APRON
FS STATION
ARP
TAXIWAY
TAXIWAY
TAXIWAY
TAXIWAY
PARALLEL TAXIWAY
RWY Strip
LOC 27
GP-09
GP-27
LOC 09
DVOR
BLINDR ROAD
Nala
Nala
Nala
Nala
Nala
Nala

adani

PROJECT TITLE
CHAUDHARY CHARAN SINGH INTERNATIONAL AIRPORT, LUCKNOW.

SUB TITLE
Existing Airport Plan

ANNEXURE – 11

GOVERNMENT OF INDIA

OFFICE OF THE
DIRECTOR GENERAL OF CIVIL AVIATION
OPP. SAFDARJUNG AIRPORT,
NEW DELHI – 110003.
TELE-011-24622495 Ext.380

भारत सरकार
महानिदेशक नागर विमानन का कार्यालय
सफदरजंग एयरपोर्ट के सामने
नई दिल्ली - ११०००३

Refer. No.: संख्या : AV 20025/17/2006-AL
Dated: दिनांक : 28.09.2021

To
Adani Lucknow International
Airport Limited (ALIAL)
Chaudhary Charan Singh
International Airport,
Lucknow-226009

Sub: - **Issue of Aerodrome License (AL/Public/013) to M/s Adani Lucknow International Airport Limited for CCSI Airport**

Sir,

Reference is invited to letter no ALIAL/CAO/20-21/0051 dated 09th Feb 2021and subsequent communications through which application, ATR & other supporting documents were forwarded to this office for issuance of aerodrome license to ALIAL for CCSI Airport Lucknow.

Enclosed Please find the Aerodrome License no. Al/Public/013 issued to ALIAL for CCSI Airport Lucknow provisionally for a period of **27-09-2021 to 26-03-2022** Aerodrome Reference Code '4D' Public Use category for All Weather Operation-IFR with airport infrastructure designed for aircraft B767-400 type or equivalent on the terms and conditions as observed in Schedule-I and Annexure-I of aerodrome license.

The Validity of aerodrome licensed issued to ALIAL for CCSI Airport Lucknow beyond provisional time will be extended on compliance of following and acceptably post assessment of the facilities/ procedures/competency of employed manpower carry out oversight/audit.

a) Complete action for full OLS survey of CCSI Airport, Lucknow and submit report after validation & verification process done by AAI.
b) Ensure applicable amendments to published aerodrome information of CCSI Airport, Lucknow in e-AIP India & other Govt, notification and necessary notification for indicating amended licensing status for CCSI Airport, Lucknow through AIS, AAI.
c) Inform to the state authorities about current licensing status for CCSI Airport, Lucknow being aerodrome operator & procure approval/Permits as applicable in terms of clauses of concession agreement and applicable laws from time to time.

P.T.O

Further It has also informed that Aerodrome Manual of CCSI Airport Lucknow, Issue-01 dated Feb-2021 has been accepted by competent authority. However aerodrome operator is advised to submit the updated aerodrome manual after addressing the deficiencies highlighted during pre-licensing inspection.

Yours' faithfully

(Kunal Kishor)
Assistant Director of Operations (Aero-Stds.
for Director General of Civil Aviation

Copy to:-

1. The Chairman, AAI, RG Bhawan, New Delhi (Kind Attn: ED(AL) – for information.

GOVERNMENT OF INDIA
OFFICE OF THE DIRECTOR GENERAL OF CIVIL AVIATION
DGCA COMPLEX, OPP. SAFDARJUNG AIRPORT, NEW DELHI-110 003

File No. AV.20025/17/06 -AL
License No. AL/Public/ 013

AERODROME LICENSE - PUBLIC USE

The Director General of Civil Aviation, in exercise of the powers under Rule 78 of the Aircraft Rules, 1937 delegated vide S.O. No. 727 (E) dated the 4th October, 1994, hereby grants license to,

Adani Lucknow International Airport Limited

for

Chaudhary Charan Singh International Airport, Lucknow

Latitude **26° 45' 42.9" N**, Longitude **80° 53' 00.7"** E

The ARFF category of the aerodrome and other details of the aerodrome as contained in its Aerodrome Manual.

This license authorizes the aerodrome to be used as regular place of landing and departure to all persons on equal terms and conditions for operation by aircraft requiring specifications of runway and associated facilities equal to or less than those indicated in the aerodrome Manual, subject to the conditions as contained in schedule-I and for a period as shown in Schedule-II hereto.

The license is liable to be suspended/ modified/ withdrawn/ and/or any limitations or conditions may be imposed, if any violation of the provisions of the Aircraft Act 1934, Aircraft Rules 1937, or any orders/ directions/ requirements issued under the said Act, rules or of the limitations or conditions as in schedule-I are observed.

This Aerodrome License is not transferable.

Date of issue: 27th September 2021
New Delhi

DIRECTOR GENERAL OF CIVIL AVIATION

SCHEDULE-I

GENERAL CONDITIONS

1. The Licensee shall ensure that aerodrome facilities, equipment, services and procedures are operated and / or maintained properly and efficiently in accordance with the Aerodrome Manual submitted to DGCA, the applicable standards set out in the CARs and conditions specified in this license.

2. The Licensee shall ensure that the copies of the Aerodrome Manual and Safety Management System (SMS) Manual, accepted by DGCA are always kept complete and current. The Licensee shall ensure that each member of the aerodrome operating staff is aware of the contents of the every part of the aerodrome manual and SMS manual, relevant to his duties and undertakes his duties in conformity with the relevant provisions of these manuals.

3. The Licensee shall ensure that an adequate number of qualified and skilled personnel are employed to perform all critical activities for the operation and maintenance of its aerodrome, and that a programme to upgrade the competency for the personnel is in place.

4. The Licensee shall notify the agency responsible for Aeronautical Information Services and the air traffic control unit immediately of any obstacles, obstructions or hazards, change in level of service at the aerodrome as set out in any publication by the aeronautical information services or variation from the Standards; closure of the movement area of the aerodrome; significant change in aerodrome facility or the physical layout of the aerodrome; and any other condition that could affect aviation safety at the aerodrome and against which precautions are warranted.

5. The Licensee shall notify the agency responsible for Aeronautical Information Services of any change to any aerodrome facility or equipment or level of service at the aerodrome which has been planned in advance and which is likely to affect the accuracy of the information contained in any publication by the agency before effecting the change.

6. The licensee shall be responsible to ensure that all security and anti-hijacking arrangements stipulated from time to time by the Bureau of Civil Aviation Security for the aerodrome are complied with.

7. When so demanded by an officer duly authorized under the Aircraft Rules, 1937, this license and any other relevant documents shall be produced for inspection.

8. The licensee shall be responsible for payment to the concerned authorities of all applicable charges pertaining to the services provided by such authorities in connection with the aerodrome operation such as water supply, electricity supply, telephone lines etc.

9. Licensee shall maintain record of all aircraft landing at and taking-off from the aerodrome.

10. The Licensee shall have legally tenable agreement with CNS and ATM service provider(s) to ensure continuity and reliability of CNS and ATM to ensure the safety of aircraft in the airspace associated with aerodrome, and that proper coordination with the agencies responsible for aeronautical information services, meteorological services, security and other areas related to safety are established.

11. The aerodrome shall at all reasonable times be open to use by any aircraft in the service of the Central Government.

12. The licensee shall ensure that during the validity of the license the capability of the services/facilities, etc. are not degraded below the notified level.

13. The licensee is to submit the application for renewal in prescribed performa along with relevant enclosures and fee, at least 2 months before expiry of license to the Director General of Civil Aviation. The license may be renewed if DGCA is satisfied that all requirements have been fulfilled.

14. Other requirements of Central Government and State Government as applicable shall be complied with.

License No. AL/Public/ 013

Annexure - I

Annexure to Sl. No. 18 of General Conditions of license.

Actions required to be taken by the licensee for consideration of renewal of license validity of Chaudhary Charan Singh International Airport Lucknow :-

i. Submit the quarterly progress report on pending observations contained in this office inspection report and on self-assessed non-compliances based on CAR if any.

ii. Submit exemption application complete in all respect for non-compliances identified for aerodrome facilities in CAR Section 4 Series B Part 1 on 'Aerodrome Standards Design and Operation' checklist and complete the actions to make aerodrome infrastructure compliant to CAR provisions.

iii. Continue to develop the operating procedures for all activities required to be performed for operation and maintenance of the aerodrome and carry out safety assessment of the same.

iv. SMS Gap Analysis and Implementation plan at the aerodrome are required to be prepared and implement SMS in phased manner and progress to be submitted periodically and on completion of each phase.

******

15. The aerodrome is licensed for use in **IFR (All weather) / VFR (Day)** conditions.

16. The aerodrome meets the design criteria and reference code **4D** as defined in the CAR Section 4 Series B Part I and designed for operation of **B767-400** type or equivalent aircraft.

17. The licensee shall maintain ARFF category defined in the Aerodrome manual or as notified by NOTAM issued in this regards.

18. Any other conditions :-

i) Actions required to be completed by the licensee for consideration of renewal of License validity are contained in Annexure-I, hereto.

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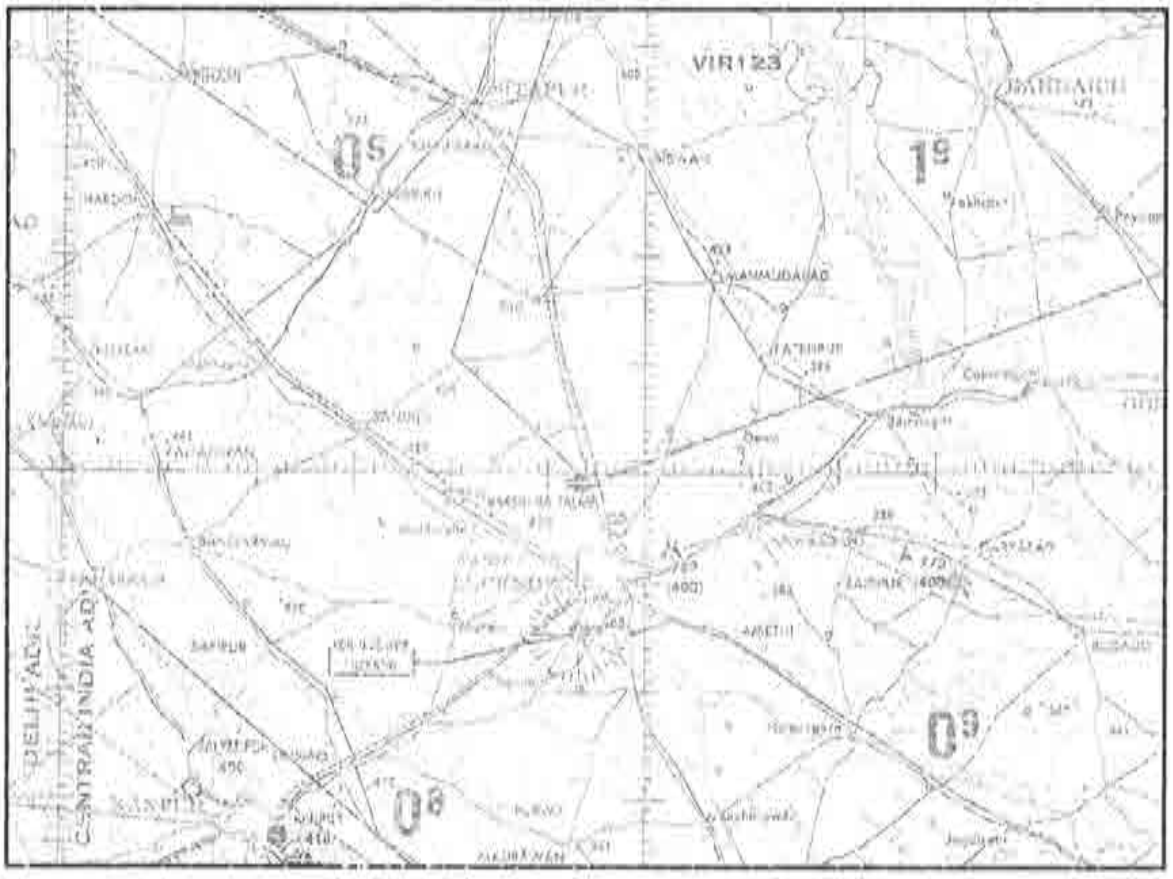
Map showing exact location of aerodrome.



License No. AL/Public/ 013

SCHEDULE-II

VALIDITY OF THE LICENSE

Chaudhary Charan Singh International Airport, Lucknow

FROM	TO	SIGNATURE
27-09-2021	26-03-2022 (Provisional)	

ANNEXURE – 12

उत्तर प्रदेश प्रदूषण नियंत्रण बोर्ड
UTTAR PRADESH POLLUTION CONTROL BOARD

पत्रांक संख्या-H 54110 /सी-5/L/NOC-929/2020 दिनांक 31/10/2020

पंजीकृत

सेवा में,

मेसर्स चौधरी चरण सिंह अंतराष्ट्रीय हवाई अड्डा,
(एयरपोर्ट अर्थारिटी ऑफ इण्डिया) (टर्मिनल–2),
सिटी फर्रूखाबाद, तह0–सरोजनी नगर,
लखनऊ।

विषयः इकाई/संस्था के नाम परिवर्तन के संबंध में।

महोदय,

उपरोक्त विषयक आप द्वारा प्रेषित पत्र दिनांक 09.10.2020 जो इस कार्यालय में दिनांक 09.10.2020 को प्राप्त है, का संदर्भ लेने का कष्ट करें। आपके द्वारा उक्त प्रेषित प्रपत्रों का परीक्षण किया गया है। एयरपोर्ट को जल (प्रदूषण निवारण तथा नियंत्रण) अधिनियम, 1974 की धारा–25/26 एवं वायु (प्रदूषण निवारण तथा नियंत्रण) अधिनियम, 1981 की धारा–21/22 के प्राविधानों के अन्तर्गत बोर्ड के पत्रांक– 36083/यू.पी.पी.सी.बी./लखनऊ (यू.पी.पी.सी.बी.आर.ओ.)/सी.टी.ई./लखनऊ/2018 दिनांक 01.02.2019 द्वारा जारी स्थापनार्थ सहमति (सी.टी.ई.) में मेसर्स एयरपोर्ट अथारिर्टी ऑफ इण्डिया, टर्मिनल–2 सीटी, फरूखाबाद, चिलावॉ ब्लाक, लखनऊ के स्थान पर मेसर्स अडानी लखनऊ इण्टरनेशनल एयरपोर्ट लि0, टर्मिनल–2 सीटी, फरूखाबाद, चिलावॉ ब्लाक, लखनऊ परिवर्तित किये जाने का अनुरोध किया गया है।

अतः उपरोक्त को दृष्टिगत रखते हुए इकाई/संस्था के नाम परिवर्तन हेतु विधिक अभिमत देते हुए सक्षम अधिकारी की अनुमति से जल (प्रदूषण निवारण तथा नियंत्रण) अधिनियम, 1974 की धारा–25/26 एवं वायु (प्रदूषण निवारण तथा नियंत्रण) अधिनियम, 1981 की धारा–21/22 के प्राविधानों के अन्तर्गत बोर्ड के पत्रांक– 36083/यू.पी.पी.सी.बी./लखनऊ (यू.पी.पी.सी.बी.आर.ओ.)/सी.टी.ई./लखनऊ/2018 दिनांक 01.02.2019 द्वारा जारी स्थापनार्थ सहमति (सी.टी.ई.) में **मेसर्स एयरपोर्ट अथारिर्टी ऑफ इण्डिया, टर्मिनल–2 सीटी, फरूखाबाद, चिलावॉ ब्लाक, लखनऊ** के स्थान पर परिवर्तित नाम **मेसर्स अडानी लखनऊ इण्टरनेशनल एयरपोर्ट लि0, टर्मिनल–2 सीटी, फरूखाबाद, चिलावॉ ब्लाक, लखनऊ** के नाम से बोर्ड अभिलेखों में दर्ज किया जाता है। इकाई को जल एवं वायु अधिनियमों के अन्तर्गत जारी सी.टी.ई. की अन्य शर्तें यथावत लागू होगी।

सक्षम अधिकारी द्वारा अनुमोदनोपरान्त पत्र निर्गमन हेतु अधिकृत

भवदीय,

मुख्य पर्यावरण अधिकारी,वृत्त–5

प्रतिलिपिः– क्षेत्रीय अधिकारी, उ0प्र0 प्रदूषण नियंत्रण बोर्ड, लखनऊ को सूचनार्थ एवं आवश्यक कार्यवाही हेतु प्रेषित।

मुख्य पर्यावरण अधिकारी,वृत्त–5

टी.सी.–12 वी., विभूति खण्ड,
गोमती नगर, लखनऊ–226010
ई–मेल–info@uppcb.com
वेब साइट -www.uppcb.com

TC-12-V, Vibhuti Khand
Gomti Nagar, Lucknow-226010
e-mail: info@uppcb.com
Web site www.uppcb.com

UTTAR PRADESH POLLUTION CONTROL BOARD

Validity Period :30/01/2019 To 30/01/2024

Ref No. - **Dated:- 01/02/2019**
36083/UPPCB/Lucknow(UPPCBRO)/CTE/LUCKNOW/2018

To ,

Shri HEM CHANDRA PANT

M/s CONSTRUCTION OF NEW INTEGRATED TERMINAL BUILDING AND ALLIED FACILITIES AT CHAUDHARY CHARAN SINGH INTERNATIONAL AIRPORT LUCKNOW UTTAR PRADESH

The proposed project is expansion of existing Lucknow Airport on existing land of Airports Authority of India., LUCKNOW, 226001

LUCKNOW

Sub : Consent to Establish for New Unit/Expansion/Diversification under the provisions of Water (Prevention and control of pollution) Act, 1974 as amended and Air (Prevention and control of Polution) Act, 1981 as amended.

Please refer to your application form no 3371153 dated - 30/10/2018 .After examining the application with respect to pollution angle, Consent to Establish is granted subject to the compliance of following conditions :

1. Consent to Establish is being issued for following specific details :

A- Site along with geo-coordinates :

B- Main Raw Material :

Main Raw Material Details		
Name of Raw Material	**Raw Material Unit Name**	**Raw Material Quantity**
Bricks	Numbers/Month	3256137
Sand	Cubic Meters/Day	113178
Cement	Metric Tonnes/Month	44912.25
Aggregates	Cubic Meters/Month	84884
Reinforcement Steel	Metric Tonnes/Month	18872

C- Product with capacity :

Product Detail	
Name of Product	**Product Quantity**
NA (Construction Project)	

D- By-Product if any with capacity :

By Product Detail			
Name of By Product	**Unit Name**	**Licence Product Capacity**	**Install Product Capacity**

E: Water Requirement (in KLD) and its Source :

Source of Water Details		
Source Type	Name of Source	Quantity (KL/D)
Ground Water (within premises)	Bore well	1245.0

F. Quantity of effluent (In KLD) :

Effluent Details	
Source Consumption	Quantity (KL/D)
Domestic	1953.0

G- Fuel used in the equipment/machinery Name and Quantity (per day) :

Fuel Consumption Details		
Fuel	Consumption(tpd/kld)	Use
Diesel	2	DG Sets

For any change in above mentioned parameters, it will be mandatory to obtain Consent to Establish again. No further expansion or modification in the plant shall be carried out without prior approval of U.P. Pollution Control Board.

2. You are directed to furnish the progress of Establishment of plant and machinery, green belt, Effluent Treatment Plant and Air pollution control devices, by 10th day of completion of subsequent quarter in the Board.
3. Copy of the work order/purchase order, regarding instruction and supply of proposed Effluent Treatment Plant/Sewerage Treatment Plant /Air Pollution control System shall be submitted by the industry till 30/01/2024 to the Board.
4. Industry will not start its operation, unless CTO is obtained under water (Prevention and control of Pollution) Act, 1974 and Air (Prevention and control of Pollution)Act, 1981 from the Board.
5. It is mandatory to submit Air and Water consent Application,complete in all respect, four months before start of operation. to the U.P. Pollution Control Board.
6. Legal action under water (Prevention and control of Pollution) Act, 1974 and Air (Prevention and Control of Pollution) Act,1981 may be initiated against the industry With out any prior information,in case of non compliance of above conditions.
7. Bank details.

Bank Fee Details				
Bank Name	Branch Name	Draft No./Money Receipt No	Date	Rupees

Specific Conditions:

1- This consent to establish is valid for the Construction of the New Integrated Terminal Building and Allied Facilities of Chaudhary Charan Singh International Airport at Village-Guraura, Aurangabad, Zagir and Bhaktikera, Lucknow.

2- The project shall comply with the provisions of Environment (Protection) Act 1986, Water (Prevention and Control of Pollution) Act, 1974 as amended, Air (Prevention and Control of Pollution) Act, 1981 as amended, Plastic Waste Management Rules 2016, E- Waste (Management) Rules 2016, Solid Waste Management Rules 2016 & Hazardous and other Waste (Management and Transboundary Movement) Rules 2016 (Whichever is applicable).

3- The project shall comply with the provisions of Construction and Demolition Waste Management Rules, 2016.

4- At the project site a display board size 4x6 feet shall be installed to display the provisions of Construction and Demolition Rules 2016.

5- Project shall dispose the hazardous waste through authorized recyclers/TSDF.

6- Industry shall obtain permission from CGWA for withdrawal of ground water within 03 months and submit it to the Board.

7- Project shall install Sewage Treatment Plant (STP) of capacity 1950 KLD in such a manner so that it can achieve the standard specified in the notification issued by Ministry of Environment, Forest & Climate Change vide GSR 1265 (E) dated 13-10-2017 in the time period as specified in the notification & treated water shall be used in flushing/horticulture/cooling etc.

8- Project shall ensure plantation of aromatic species with broad leaf nearby the area of STP.

9- The project proponent shall comply with the conditions imposed in the EC issued by Government of India Ministry of Environment, Forest and Climate Change vide F.No.- 10-47/2017-IA-III dated 26.09.2018.

10- Industry shall develop green belt as per the protocol attached with the Board's office order no. H16405/220/2018/02 dated 16-02-2018 which is available on board's website.

11- The project proponent shall ensure to provide the proper exhaust from roof level along with acoustic enclosures on DG sets (5X 750 KVA and 4x320 KVA) as per prescribed standards.

12- Project shall not start gaseous emission & sewage generation without obtaining CTO (Air and Water) from the Board.

13- All construction activities shall be according to authority guidelines.

14- The dust emission from the construction sites shall be completely controlled and all precautions will be taken in that behalf.

15- All approach roads & in campus roads should be sprinkled with water to suppress the dust emission.

16- Storage of any construction material particularly sand shall not be done on any space outside the project area.

17- The construction material of any kind stored on site shall be fully covered in all respect so that it does not disperse in the air in any form. The dust emission from the construction sites shall be completely controlled and all precautions will be taken in that behalf.

18- All the construction material & debris shall be carried in trucks or vehicles which are fully covered and protected so as to ensure that the construction debris or construction material does not get dispersed into the air or atmosphere in any form whatsoever.

19- The project shall ensure to provide the proper Wind breaking wall constructed around the construction site.

Source of Water Details		
Source Type	Name of Source	Quantity (KL/D)
Ground Water (within premises)	Bore well	1245.0

F. Quantity of effluent (ln KLD) :

Effluent Details	
Source Consumption	Quantity (KL/D)
Domestic	1953.0

G- Fuel used in the equipment/machinery Name and Quantity (per day) :

Fuel Consumption Details		
Fuel	Consumption(tpd/kld)	Use
Diesel	2	DG Sets

For any change in above mentioned parameters, it will be mandatory to obtain Consent to Establi again. No further expansion or modification in the plant shall be carried out without prior approval of U.P. Pollution Control Board.

2. You are directed to furnish the progress of Establishment of plant and machinery, green belt, Effluent Treatment Plant and Air pollution control devices, by 10th day of completion of subsequent quarter in the Board.
3. Copy of the work order/purchase order, regarding instruction and supply of proposed Effluent Treatment Plant/Sewerage Treatment Plant /Air Pollution control System shall be submitted by the industry till 30/01/2024 to the Board.
4. Industry will not start its operation, unless CTO is obtained under water (Prevention and control of Pollution) Act, I974 and Air (Prevention and control of Pollution)Act, 1981 from the Board.
5. It is mandatory to submit Air and Water consent Application,complete in all respect, four months before start of operation, to the U.P. Pollution Control Board.
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7. Bank details.

Bank Fee Details				
Bank Name	Branch Name	Draft No./Money Receipt No	Date	Rupees

Specific Conditions:

ANNEXURE – 13

adani	Lucknow International Airport Limited	From : April'2021 To : September'2021
Annexure 13 – Project Area Barricading Photographs		

ANNEXURE – 14

adani	**Lucknow International Airport Limited**	**From : April'2021** **To : September'2021**

Annexure 14 - 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 September 2021
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 15**
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 15**
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 Demotion waste generated are being used in filling low lying areas

Annexure 14 - 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 15**
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- 13**
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 15**
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 15**
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.

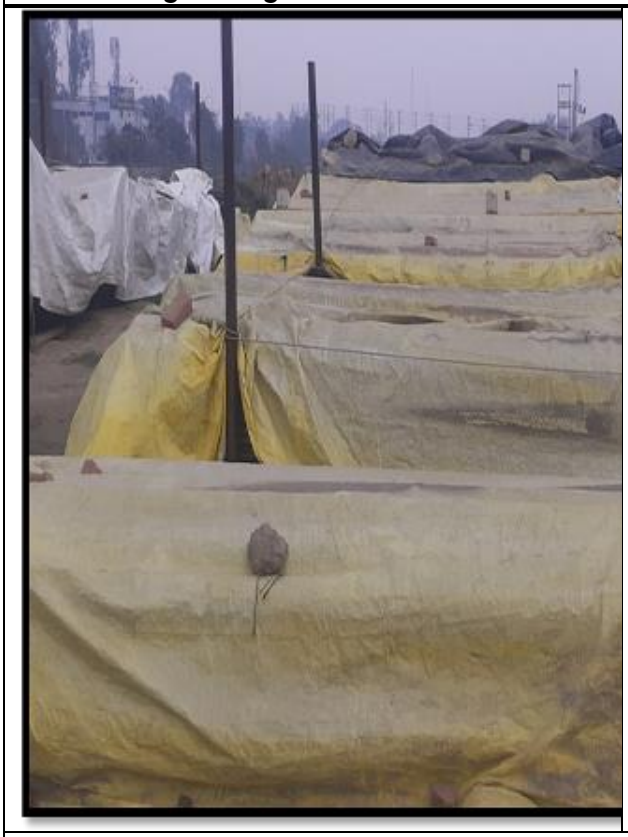
		Photograph showing environment management measures during construction phase, are attached as **Annexure 15**
Iv	Construction and Demolition Waste processing and disposal site shall be identified and required dust mitigation measures be notified at the site.	**Complied** Construction and Demotion waste generated are being used in filling low lying areas Photograph showing environment management measures during construction phase, are attached as **Annexure 15**

ANNEXURE - 15

adani	Lucknow International Airport Limited	From : April'2021 To : September'2021

Annexure 15 – Photographs showing Environment Management at Construction Sites

Barricading arrangements



Construction Materials covered

adani	Lucknow International Airport Limited	From : April'2021 To : September'2021

Annexure 15 – Photographs showing Environment Management at Construction Sites

Tyre Washing and Vehicle carrying covered Construction Material

Vehicle carrying covered Construction Material

adani	Lucknow International Airport Limited	From : April'2021 To : September'2021

Annexure 15 – Photographs showing Environment Management at Construction Sites

Water sprinkling at Regular intervals

adani	Lucknow International Airport Limited	From : April'2021 To : September'2021

Annexure 15 – Photographs showing Environment Management at Construction Sites

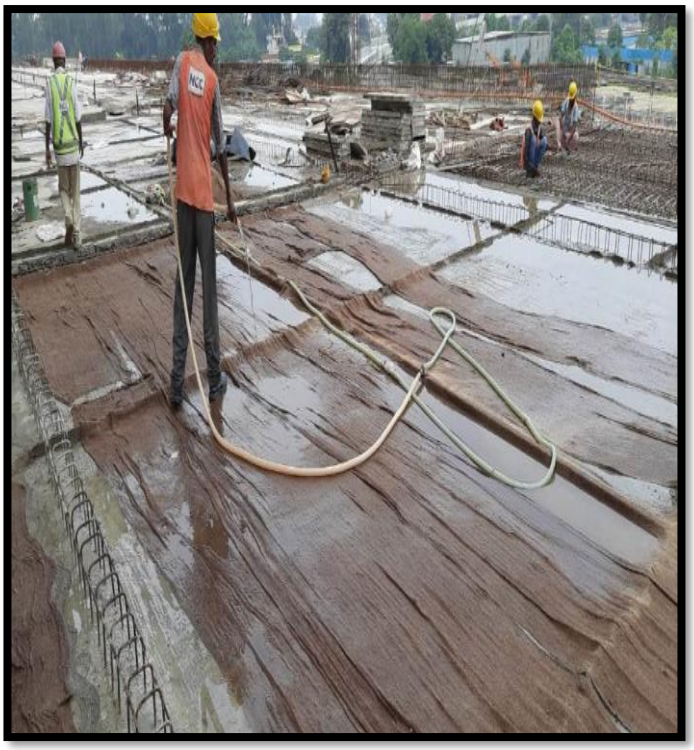
Top soil preservation & Paved surface

LED lights being used at site for reducing of energy consumption

adani	Lucknow International Airport Limited	From : April'2021 To : September'2021

Annexure 15 – Photographs showing Environment Management at Construction Sites

Solid waste management at site



Use of hessian cloth to save water during concrete slab curing

Annexure 15 – Photographs showing Environment Management at Construction Sites

Dust collectors/Dust filter provided with cellos of batching plant to protect air pollution

ANNEXURE – 16

भारतीय गन्ना अनुसंधान संस्थान
रायबरेली रोड, पोस्ट दिलकुशा,
लखनऊ - 226 002, भारत

Indian Institute of Sugarcane Research
Raebareli Road, Post Dilkusha,
Lucknow - 226 002, India

Date: 22/06/2020

Analysis Report

Name of Individual/ Agency:- **M/S Egis India Consulting Engineers Pvt. Ltd.**
NCC limited, Terminal-3, Airport, LKO
Details of Samples :- Soil
Samples received on :- 12/06/2020

Soil sample			
Parameters	**Test Value**	**Standard value**	**Remark**
%OC	**0.12**	0.50 - 0.75	Low
N (kg/ha)	**62.77**	280 - 560	Low
P_2O_5(kg/ha)	**9.98**	28.40 – 51.30	Low
K_2O(kg/ha	163.68	137 - 337	Medium

Asha Gaur
(Asha Gaur)
CTO

(V. P. Jaiswal)
Sr. Scientist and I/C Referral Lab

Telephones : Director : +91-522-2480726 (Off.) +91-522-2451757 (Res.) EPABX : +91-522-2480735, 2480736, 2480737
Telegram : GANNAANUSANDHAN
Fax : +91-522-2480738 E-mail : iiarlko@sancharnet.in
Website : www.iisr.nic.in

ANNEXURE – 17

ADANI LUCKNOW INTERNATIONAL AIRPORT LIMITED

Chaudhary Charan Singh International Airport, Lucknow

DISASTER MANAGEMENT PLAN

Issue 01, Feb 2021

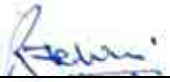
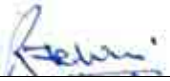
Disaster Management Plan

Doc No.: ALIAL / DMP/ PLN / 01

The contents and other supporting documents / procedures mentioned in this Manual shall be applicable to the ALIAL.

Document status: Approved copy

Document Sign off:

Activity	Name and position	Signature	Date
Prepared by	**Mr. Rajesh Tiwari**		**10/1/2021**
Reviewed by	**Mr. Rajesh Tiwari**		**25/1/2021**
Approved by	**Mr. Suresh Chandra Hota**		**4/2/2021**

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RECORD OF AMENDMENTS

S. No	Amend No.	Summary of Amendment(s)	Page No.	Effective Date	Entered by (Name & Sign)

CHAPTER-1

Introduction

The disaster would imply, "an occurrence arising with little or no warning with cause of threatens, serious disrupt on of life and perhaps cause death injury to large number of people and required therefore a mobilization of efforts in excess of that normally provided by the statutory emergency service". This means that additional efforts would be needed to meet disasters which may directly or indirectly affect the aircraft operation. The disasters which may be occurred at C.C.S.I Airport are broadly categorized under three headings.

Natural: Earthquake, Cyclones, Floods etc.

Manmade: Chemical, Biological, Nuclear, Radiological, Aircraft crash etc.

Hybrid: Floods, Epidemics etc.

TheC.G.S.IAirportmaybeaffectedinthedisasterlikeEarthquake,Cyclones,Chemical, Biological, Nuclear, Radiological, Aircraft crash, Epidemics etc. "Disaster Management' means a continuous and integrated process of planning, organizing, coordinating and implementing measures which are necessary or expedient for:

- Prevention of danger or threat of any disaster
- Mitigation or reduction of risk of any disaster or its severity or consequence
- Capacity-building

- Preparedness to deal with any disaster
- Prompt response to any threatening disaster situation or disaster
- Assessing the severity or magnitude of effects of any disaster
- Evacuation, rescue and relief
- Rehabilitation and reconstruction
- Rapid control and containment of the hazardous situation
- Minimizing the risk and impact of an even accident
- Effective rehabilitation of the affected persons, and prevention of damage to property.

Disaster preparedness and management plan is an integral part for airport projects. This is important for effective management of an emergency situation to minimize losses to people, property and both at and around the airport.

An airport like any other installation is prone to a range of natural and manmade disaster depending upon its geographical location and threat perception. Therefore, in order to mitigate the effect of such disasters and restore the normalcy at the earliest on the airport, it is essential to put in place a plan for comprehensive preparedness and response for handling anticipated disasters at the airport. In the disaster management planning is done to contain the effects of identified failure scenarios.

CHAPTER-2

Document Preparation and Publication

This Disaster Management Plan for the C.C.S.I Airport has been prepared by encompassing the guidelines of Fire Order no-14 of AAI.

This Disaster Management Plan is prepared by the Head (Fire Services), on behalf of Head Operations and Chief Airport Officer will be sent for approval of SDMA and DGCA. The Chief Airport Officer, ALIAL is responsible to publish and maintain this Plan.

Head (Fire Service), ALIAL on behalf of Head Operations and Chief Airport Officer, C.C.S.I Airport ALIAL, will ensure that the policies and procedures as approved by UPSDMA are incorporated in this plan.

Committee Members of Disaster Management:

a) Chief Airport Officer, ALIAL
b) Head Operations (Ops), ALIAL
c) In-charge Airside, ALAIL
d) In-charge Terminal, ALIAL
e) Chief Security Officer ,ALIAL

f) Head Fire Services, ALIAL
g) ATS In-charge, AAI
h) UP Gov Representative.
i) SDMA Representative.
j) Senior Police Officer (S.S.P.)
k) Commandant (CISF)
l) Ministry of Civil Aviation representative
m) DGCA representative
n) Concerned Airline representatives
o) Any other agencies required for proper handling of the disaster

CHAPTER-3

Record of Amendments

Head (FS) is responsible for incorporating amendment to the Airport Disaster Management Plan. This includes inserting new chapters or chapter amendments in a timely manner and complying with any instructions on amendment advice. The user of this plan will be responsible for verifying the currency of documentation in the plan. Holders of hard-copies of plan are responsible for ensuring that the plan is kept up to date.

Amendment No	Date amended	Amended by

Effective date of an instruction is indicated at the foot of the page. New edition will be indicated by date at the foot of the page with the help of Document ID.

CHAPTER-4

Scope of Disaster Management Plan

The National Disaster Management Act, 2005 further requires all the state governments to establish SDMAs/State Executive Committees (SECs), and also create Disaster Management Authorities (DMA) to create an infrastructure for the disaster mitigation. The Disaster Management Act, 2005 also mandates every Ministry / Department of Govt. of India to prepare a Disaster Management Plan as per the NOMA guidelines.

The purpose of a DMP is to spell out the procedures for coordinating the response of different agencies and services, both on and off the airport, to cope with various aircraft related and non-aircraft related emergencies anticipated at the airport. There are 15 guideline docs. On various topics which needs to be studied and their significant points are to be incorporated in the Disaster Management Plan for the respective airport to the maximum extent possible.

CHAPTER-5

Plan Objective

Objective of Disaster Management Plan are given below:

- To protect and minimize the loss of lives and property/infrastructure from disasters.
- To minimize the suffering of people due to disaster.
- To minimize the disaster risk and vulnerability of people and infrastructure in the airport.
- Promote a culture of prevention and mitigation through curriculum revision, Information Education Communication (IEC) awareness campaigned plans at all level mocks drills & communicating hazards.
- To build the capacity of all stakeholders in the airport to cope with the disaster add promote community-based disaster management.

- Mainstreaming disaster management concerns into development planning procedures
- Develop efficient disaster response/relief mechanism in the airport.
- To provide clarity on roles and responsibilities for all stakeholders concerned with disaster management.
- Commence recovery program as an opportunity to build better in case of a future disaster by incorporating stakeholders in the program.

The objective of disaster response is to carry out following tasks, all within the constraints of available resources:

- Mitigation of accidents at source
- Prevention of deterministic health effects in individuals
- Providing first-aid and treatment of injuries
- Reducing the probability of stochastic effects in the population
- Reduction of psychological impact on the population
- Protection of environment and property

CHAPTER-6

Action Plan

This Airport Disaster Management Plan shall detail the action plan as per the guidelines of SDMA.

This shall include the following aspects:

Activities			Responsibility
Earthquake			
1	Prevention	Earthquake resistant design and construction of Public utility structure	ALIAL
		Periodical Inspection and maintenance of building	Civil maintenance
		Monitoring of seismic activities	IMD
2	Mitigation	Campaign for Earthquake safety tips	Concerned section
		Identification and removal of unsafe buildings/ structure	Concerned section
		Departmental action plan(SOP)	Concerned section
3	Preparedness	Routine drills/training, inspection/testing of all rescue and fire-fighting equipment	Fire Service

		All periodical exercises	Air traffic management / Terminal & Airside Management/Fire services
		Runway inspection	ATC
4	Response	Maintaining Alert crew all the time for quick response.	Concerned Section
		Fire-fighting / rescue/medical assistance.	Fire services in coordination with ATC& Apron control
		Speedy and safe evacuation	Concerned section
		Providing transport Facilities	Airlines/ MT section/ Responding agencies
		Assist other responding agencies	Concerned section/ Security Manager
		Inform to COR and other related agencies	Chief Airport Officer or his representative
5	Relief	Rescue operation	Fire services /City fire brigade/ responding Rescue team
		Relocation of passengers/causality to temporary shelter, bed hygiene related facility /hospital/ lighting	Airlines/ Terminal management/ emergency medical services/HR /Finance section
		Providing Water/food	Terminal management/HR
		Providing transport Facilities	Airlines/ IDT section/Responding agencies
6	Rehabilitation and Reconstruction	Identification of suitable project	Concerned section
		Project dealing and approval	Relevant technical authority
7	Recovery	Rebuilding infrastructure	Relevant technical authority
		Claim for Insurance	ALIAL
		Developing policies and practices to avoid similar situations in future	Concerned section
Cyclone			
1	Prevention	Forecasting and warning alerts	IMD
		Building design as per standards to resist wind/water	Relevant technical authority
		Proper drainage system	Relevant technical authority
		Improvement of building sites by raising the ground level to protect against water	Relevant technical authority

		and storm surges.	
		Communication and utility lines should be located away from the Coastal area or installed underground.	Relevant technical authority
		Maintenance of fire appliances/rescue equipment.	Fire Services/MT
2	Mitigation	Declaration of weather/storm standby	ATC
		Runway inspection	Apron control
		Identification and removal of unsafe buildings / structure	Concerned section
		Departmental action plan(SOP)	Concerned section
3	Preparedness	Pre monsoon/cyclone meeting for preparedness	Chief Airport Officer or his representative
		Maintaining Alert crew all the time for quick response.	Concerned Section
4	Response	Fire-fighting / rescue/medical assistance.	Fire services incoordination with ATC and Apron control
		Speedy and safe evacuation	Concerned section
		Providing transport Facilities	Airlines/ MT section
		Assist other responding agencies	Concerned section
		Inform to COR and other related agencies	Chief Airport Officer or his representative
5	Relief	Rescue operation	Fire services /City fire brigade/ responding Rescue team
		Relocation of passengers/causality to temporary shelter, bed hygiene related facility /hospital /Lighting	Airlines/ Terminal management emergency medical services/HR Finance section
		Providing Water/food	Terminal management /HR
		Providing transport Facilities	Airlines/ MT section/Responding agencies
6	Rehabilitation and Reconstruction	Identification of suitable project	Concerned section
		Project dealing and approval	Relevant technical authority
7	Recovery	Rebuilding infrastructure	Relevant technical authority
		Claim for Insurance	ALIAL
		Developing policies and practices to avoid similar situations in future	Concerned section
Aircraft crash inside the Airport			

1	Prevention	Inspection / maintenance of Navigation aids	CNS/Electrical
		Runway inspection	Apron Control
		Weather status	IMD
		Follow up Air Traffic rules(Annex 2, 11, Doc 444)	ATC
		Markings/Lightings guidelines as per CAR and Annex 14	ATC/Civil/Electrical
		Serviceability of communication facilities	CNS
		Serviceability of Aircraft	Concerned Airline
2	Mitigation	Declaration of Emergency	ATC
		Departmental action plan(SOP)	Concerned section
3	Preparedness	Routine drills training, inspection/testing of all rescue and fire-fighting equipment	Fire Service
		All periodical exercise	Air traffic management/Terminal & Airside Management/Fire services
		Maintaining Alert crew all the time for quick response.	Concerned Section
4	Response	File-fighting / rescue/medical assistance.	Fire services in coordination with ATC
		Speedy and safe evacuation	Fire service
		Providing transport Facilities	Airlines/ MT section
		Assist other responding agencies	Concerned section
		Inform to COR and other related agencies.	Chief Airport Officer or his representative
		Security of Accident site	CISF
5	Relief	Rescue operation	Fire services /City fire brigade/ responding Rescue team
		Relocation of passengers/causality to temporary shelter, bed hygiene related facility /hospital blighting	Airlines/ Terminal management/ emergency medical services/HR / Finance section
		Providing Water/food	HR / Concerned Airlines
		Providing transport Facilities	Airlines/ MT section responding agencies
6	Rehabilitation and Reconstruction	Identification of suitable project	Concerned section
		Project dealing and approval	Relevant technical authority

7	Recovery	Rebuilding infrastructure	Relevant technical authority
		Claim for Insurance	ALIAL/ Concerned Airlines
		Investigation, developing policies and practices to avoid similar Situations in future.	Concerned section/agency
Aircraft crash outside Airport within Response Area			
1	Prevention	Inspection / maintenance of Navigation aids	CNS/Electrical
		Follow up Air Traffic rules(Annex 2, 11, Doc 444)	ATC
		Weather status	IMD
		Serviceability of communication facilities	CNS
		Serviceability of Aircraft	Concerned Airline
2	Mitigation	Declaration of Emergency	ATC
		Departmental action plan(SOP)	Concerned section
3	Preparedness	Routine drills training, inspection/ testing of all rescue and fire-fighting equipment	Fire Service
		All periodical exercise	Air traffic management/Terminal& Airside Management/Fire services
		Familiarization of response area	Airport Fire Service
		Maintaining Alert crew all the time for quick response.	Concerned Section
4	Response	Fire-fighting / rescue/medical assistance.	Fire services in coordination with ATC/ City Fire Brigade/other responding agencies
		Speedy and safe evacuation	Fire services / City Fire Brigade/other responding agencies
		Providing transport Facilities	Airlines/ MT section /other responding agencies
		Assist other responding agencies	Concerned section
		Inform to COR/GSDMA and other related agencies	Chief Airport Officer or his representative
		Security of Accident site as per AEP	CISF
5	Relief	Rescue operation	Fire services /City fire brigade/ responding Rescue team

		Relocation of passengers/causality to temporary shelter, bed hygiene related facility /hospital /lighting	Airlines/ Terminal management emergency medical services/Other responding agencies
		Providing Water/food	HR / Concerned Airlines
		Providing transport Facilities	Airlines/ MT section/responding agencies
6	Rehabilitation and Reconstruction	Identification of suitable project	Concerned Authority
		Project dealing and approval	Relevant technical authority
7	Recovery	Rebuilding infrastructure	Relevant technical authority
		Claim for Insurance	ALIAL / Concerned Airlines
		Investigation, developing policies and practices to avoid similar situations in future.	Concerned section/other agency
CHEMICAL DISASTER			
1	Prevention	Advanced notification to the airport, if DG in cargo.	Consigner
		Storage and Handling according to the prescribed national rules, guidelines DGCA regulation, ICAO Annex 18 and doc 9284.	Airlines, Cargo
		Periodical Inspection and maintenance of building.	Cargo
		Permission of Central Govt.	Airlines, Cargo
		Protection of environment and property	Concerned agencies
2	Mitigation	Campaign for Chemical safety tips.	Concerned section
		Identify and isolate the affected area	Terminal Management/ CISF/ Fire/ Concerned Agencies
		Periodical inspection and audit of Cargo building.	Concerned section
		Prohibit eating ,drinking and smoking in the incident area	Concerned sections
		Preparation of DM plan for oil depot.	Concerned oil Industries.
3	Preparedness	Routine drills/training, inspection / Testing of all rescue and fire-fighting equipment	Fire Service
		All periodical exercise as per fire order	Air traffic management/Terminal

			Management/Fire services
4	Response	Maintaining Alert crew all the time for quick response	Concerned Section
		Fire-fighting / rescue/medical assistance.	Fire services in coordination with ATC
		Established AOCC	Chief Airport Officer or his representative
		Speedy and safe evacuation	Concerned section
		Providing transport Facilities	Airlines/ MT section/responding agencies
		Assist other responding agencies	Concerned section/Security Manager
		Inform to COR/DDMO(collector/DRO)	Chief Airport Officer or his representative
		Security of Accident site as per AEP	CISF
5	Relief	Rescue operation	Fire services /City fire brigade/ responding Rescue team
		Relocation of passengers/causality to temporary shelter, bed hygiene related facility /hospital/lighting	Airlines/ Terminal management emergency medical services/HR / Finance section
		Providing Water/food	HR
		Providing transport Facilities	Airlines/ MT section/ Responding agencies
6	Rehabilitation and Reconstruction	Identification of suitable project	Concerned section
		Project dealing and approval	Relevant technical authority
		Rebuilding infrastructure	Relevant technical authority
7	Recovery	Claim for Insurance	ALIAL/Airlines/Oil Industries
		Developing policies and practices to avoid similar situations in future	Concerned section
BIOLOGICAL DISASTER			
1	Prevention	Prevention of deterministic health effects in individual	Concerned sections
		Maintain Good House-keeping.	Concerned sections
2	Mitigation	Identify and isolate the affected area	Terminal Management/CISF/ Fire
		Campaign for Biological safety tips.	Concerned section

		Inform to COR, GSDMA and related agencies immediately.	Chief Airport Officer or his representative
		Inspect the airport premises immediately when suspected, with specialized agencies.	Chief Airport Officer or his representative /Terminal Management
		Prohibit eating, drinking and smoking in the incident area	Concerned sections
3	Preparedness	Lectures and trainings on Biological Disaster handling	Training Centre
		Use of Monitoring instruments and safety equipment.	Responding agencies
		Study Contingency Plans	Concerned sections
		Maintain alert crew	Terminal Management Fire Service
		All periodical exercise as per fire order	Air traffic management Terminal Management Fire services
4	Response	Sealing/Security of Affected site as per AEP	CISF
		Maintaining Alert crew all the time for quick response.	Concerned Section
		Firefighting / rescue/medical assistance.	Fire services in coordination with ATC/Special rescue team
5	Relief	Established AOCC	Chief Airport Officer or his representative
		Speedy and safe evacuation	Concerned section/special rescue team
		Providing transport Facilities	Airlines/ MT section responding agencies
		Maintain Law and Order	Concerned section/Police/Other Agencies
6	Rehabilitation	Assist other responding agencies	Concerned section/Security Manager
		Inform to COR/DDMO(collector/DRO)/ Local Authorities	Chief Airport Officer or his representative
		Security of Accident site	CISF
7	Recovery	Developing policies and practices to avoid similar situations in future	Concerned section
RADIOLOGICAL/NUCLEARDISASTER			
1	Prevention	Advanced notification to the airport, if DG in cargo.	Consigner
		Permission of Central Govt.	Airlines, Cargo

		Storage and Handling according to the prescribed national rules, guidelines DGCA regulation, ICAO Annex 18 and doc 9284.	Airlines, Cargo
		Protection of environment and property	Concerned agencies
2	Mitigation	Campaign for Radiological and Nuclear safety tips.	Concerned section
		Identify and isolate the affected area	Terminal Management/CISF/ Fire
		Prohibit eating, drinking and smoking in the incident area	Concerned sections
		Inform to COR, GSDMA and related agencies immediately.	Chief Airport Officer or his representative
		Inspect the airport premises immediately when suspected, with specialized agencies.	Chief Airport Officer or his representative/Terminal Management Specialized team.
3	Preparedness	Periodical exercise as per fire order	Air traffic management / Terminal Management/Fire services
4	Response	Maintaining Alert crew all the time for quick response.	Concerned Section
		Fire-fighting / rescue/medical assistance.	Fire services incoordination with ATC/ Special rescue team
		Established AOCC	Chief Airport Officer or his representative
		Speedy and safe evacuation	Concerned section/special rescue team
		Providing transport Facilities	Airlines/ MT section/ responding agencies
		Maintain Law and Order	Concerned section/Police/Other Agencies
		Assist other re9ponding agencies	Concerned section/Security Manager
		Inform to COR/DDMO(collector/DRO)/ Local Authorities	Chief Airport Officer or his representative
		Security of Accident site	CISF
5	Relief	Rescue operation	Fire services /City fire brigade / responding Special rescue team
		Relocation of passengers/causality to temporary shelter/hospital as per safety procedure	Airlines/ Terminal management emergency medical services/Special

			rescue team/COR
		Providing Water, food, bed, hygiene related facility etc.	HR/ COR
		Providing transport Facilities	Airlines/ MT section/ responding agencies
6	Rehabilitation and Reconstruction	Identification of suitable project	Concerned section
		Project dealing and approval	Relevant technical authority
7	Recovery	Rebuilding infrastructure	Relevant technical authority
		Claim for Insurance	ALIAL/Airlines/Oil Industries
		Developing policies and practices to avoid similar situations in future	Concerned section
		Rebuilding infrastructure	Relevant technical authority
		Claim for Insurance	ALIAL/Airlines/Concerned Agencies
EPIDEMICS			
1	Prevention	Prevention of deterministic health effects in individual	Concerned sections
		Prevent poor sanitary conditions which may contaminate food and water	Concerned sections
		Protect the environment buildings from breeding conditions for the insect vector	Chief Airport Officer or his representative
		Maintain Good House-keeping	Concerned sections
2	Mitigation	Structuring the health services at airport	Chief Airport Officer or his representative
		Medical inspection for arriving passengers	Medical team
		Check up and diagnose the victims	Medical team
		Identify and isolate the affected area	Terminal Management/CISF/ Fire
		Prohibit eating, drinking and smoking	Concerned sections
		Use PPE while handling passengers/ person/visitors	Concerned section
3	Preparedness	Campaigns for Epidemic safety tips	Concerned section
		Inspect the airport premises immediately when suspected, with specialized agencies	Chief Airport Officer or his representative /Terminal Management
		Use of Monitoring instruments and safety equipment	Responding agencies
4	Response	Improving the sanitary condition wherever observed	Concerned section/Civil/Terminal

		Follow disposal procedure of waste, disinfecting the water source	Concerned section
		Assist other responding agencies	Concerned section/ security Manager
5	Relief	Relocate the passengers to a safe and hygienic area.	Airlines/ Terminal management/ Medical team
		Arrange for hygienic Water/food/sanitation facilities	HR
6	Rehabilitation and Reconstruction	Reduction of psychological impact	Chief Airport Officer or his representative
7	Recovery	Developing policies and practices to avoid similar situations in future	Concerned section

CHAPTER-7

ROLES AND RESPONSIBILITIES IN CASE OF DISASTER

7.1 Action by Air Traffic control

In case of a disaster, the Duty Officer, ATC will put on the

- Siren - for general alert to all the agencies working at the airport.
- Crash bell/Fire bell - to alert the fire station for fire and rescue operation.
- Declares Emergency depending on the situation, on R/T or Hot Line or Phone directly connected to Fire control room
- Inform fire control room to dispatch at the affected site
- Inform Apron control and request a Runway inspection

When full emergency is declared the following information shall be included by ATC to Fire control room:

a) Flight No.
b) Type of aircraft.
c) Name of owner of aircraft
d) Number of occupants.
e) Nature of trouble.
f) Runway to be used and subsequent change of runway.
g) Expected time of arrival.

ATC offices will inform

- Apron Control

- Approach Radar
- ACC/WSO
- Jt.GM (ATC)
- Met duty officer

7.2 Action by Apron Control

Apron control shall inform:

- IN charge (Terminal)
- In-charge Airport Security (CISF)
- Chief Airport Officer
- Will monitor the movement and progress of safety services and their activities.
- Inform Civil Hospital, Balrampur Hospital & SGPGI
- Informs listed doctors to reach the crash site as per the procedure
- Inform City Police (hot line)
- If required by Airport Safety services call City Fire brigade on hotline or another assistance required
- Take NOTAM action, if required in coordination with WSO.

7.3 Action by Head Operations or his representative

1. Activate Emergency information counters (EIC)

Place: Terminal Manager Office, International/Domestic Building

Members:

- In-charge Terminal or his representative, C.C.S.I. Airport
- Concerned Airlines
- Airport Security
- Representative of the other agencies, in case of disastrous situation

2. Help Tower/ACC/Fire services and apron control in crash/disaster handling

When fire or disastrous situation is under control proceed to site with two-way communication with ATC.

3. Become on-scene Commander & coordinate with airlines for transfer of casualties to hospitals in case of crash within ALIAL jurisdiction. For other disaster ALIAL shall assist responding agencies on their arrival.
4. Coordinate site operations with all responding agencies, Police, Fire Ambulances, Hospitalization, record of head-counts wreckage, cordoning

coordination with ATC, public help counter. For disaster beyond the control of ALIAL, ALIAL shall assist responding agencies.

5. Support in resumption of ATC operations and guarding of wreckage, investigations etc as per the procedure.

7.4 Action by WSO

- Inform Delhi FIC
- Director of Air Safety /DGCA
- ED (ATM)
- BCAS Delhi
- Take NOTAM action & resumption of ATC operations according to the nature and situation of disaster
- Originate signal & report to all concerned
- Cancellation of NOTAM
- Guide ATC for sorting out the air Traffic

7.5 Action by Jt.GM (ATM) /DGM (ATM-SQMS)

- Reach in Control Tower at the earliest and assess the situation for more help for RFFS and responding agencies
- Inform collector/Commissioner of Police
- Ensure all actions are taken by Tower/ACC/TML
- Keep Chief Airport Officer informed about the gravity of situation and effect on operations.
- Coordinate TM operations/security on the crash site
- Investigations, Photography, etc. & restoration of ATC operations
- Seal the records.
- Make arrangement for video Photography.

7.6 Action by Airport Fire Services

The primary function of the Fire Services is rescue & fire fighting in any disasters. It is important to upgrade their functions to include appropriate response to disasters, zonation, mobile decontamination, search and rescue and evacuation. If the situation is worst and beyond the capability of AFS, a specialized rescue team may be called and AFS will assist them.

These functionaries will be tested at vulnerable locations by conducting mock-drills. Different capacity development measures will be undertaken based upon the lessons learnt from these mock-drills.

- Level of Protection provided at airports for Airport Rescue and Fire Fighting (ARFF) purposes according to the designated category of the airport as per the ICAO standard to be maintained in coordination with ATC with respect to the severity of the disaster.
- Compliance of ICAO, DGCA & AAI Fire Orders.
- Fire prevention and protection of ATC Tower, Terminal Building, Technical Building, Cargo and other Airport infrastructures.
- The Airport Fire Service conducts various emergency exercises Full Scale Emergency Exercise, Partial Exercise, Building evacuation Drill, Mock Drill etc. in coordination with ATC.
- Fire investigation and analysis.
- Mutual aid fire-fighting & Rescue operations with other fire safety assistance services like City Fire Brigade & other responding agencies in case of any Disasters within or outside the Airport premises.
- Ambulance services provide to the aircraft passengers.

7.6.1 Action by Fire Watch Tower:

The crew present in the Watch Tower will continue to assist the Fire Control room and ATC. He will also constantly watch the aircraft movement in the operational area, vehicle movement in the area and any consequences of natural disaster.

7.6.2 Action by Fire Control Room:

Fire Control Room is the heart of RFFS of airport and is manned by a person who is very well in coordination with ATC on R/T or walkie-Talkie. All messages from ATC are passed to Fire Control Room on Hot line or Walkie-Talkie or phone.

In case of crash message received either from watchtower or from ATC or from any other source, he will -

- Record immediately the details
- Inform shift In-charge /Duty Officer Fire
- Inform Head {Fire)
- Make announcement on PA system

CRASH! CRASH! CRASH!

GRID Position ——---location ——--

Within the airport or outside the airport or specific location in case of other disaster.

Further details will be passed on Walkie-Talkie that will be acknowledged by I/C CFT-1, I/C CFT-2, and I/C CFT-3. In-charge CFT 1 will keep continuous in touch with ATC for runway crossing route instructions, Grid Position and the other vehicles will follow or proceed specific location for specific task.

In-charge CFT 1 will report to ATC;

(a) On reaching the site

(b) When Firs or any other disastrous situation under Control

(c) Or more help required if disaster or not able to handle the situation.

(d) Significant occurrences

(e) Full report - on crash or any other disaster

Meanwhile Fire control room will inform to all non-duty AFS staff for alerting.

7.6.3 Action by Shift In-charge:

1. He will be in command of the RFFS of airport as well as of the city fire brigade services if the fire occurred inside the airport or within response area for Aircraft crash. For other disaster AFS shall assist the responding agencies. He will be on-scene-commander and will continue coordinating with other agencies on the crash site like Public help, Police, Airline operator, management of triage area, causalities, priority of causalities dispatch to hospitals etc. till the arrival of Head (FS).

2. When some other senior officer/Head Ops arrives on the scene and takes over charge of crash site, the RFFS when no more required on site will return back to Fire Station. For other disaster ALIAL shall assist the responding agencies

3. Activate Rendezvous Point: Airport Gate No-02.

4. Arrange for salvage operation and remain standby for giving/receiving assistance (when airport or city or both are affected in disaster)

5. Arrange standby crew and equipment for additional task, if any (when airport or city or both are affected in disaster)

6. Arrange command post at airport.

7. Head (Fire Services) will carry out roll call, assess the status of Fire crew/vehicles and replenish requirement &declare category available & inform ATC.

8. Head (Fire) & Shift In-charge will fill up the required report forms & submit to Head Ops at the earliest.

7.6.4 Action by In-charge Terminal

He will be In-charge of the emergency information center & responsible.

To collect information from crash site though Apron control or fire control room on injured & survivors

- Collect passengers manifesto from airlines
- Obtain information about hospitalized passengers
- Call State Police Sarojani Nagar/Krishnagar for law & order.
- Make arrangement & function as In-charge of E-I-C
- Receive and make arrangement the outside help incoming such as doctors, Ambulances, Fire brigade, Police, relatives and direct them to appropriate site or hospitals
- Coordinate Customs/Immigration in case the International flight involved
- Coordinate with ATC and Fire Station
- Inform contact number to Door darshan
- Make arrangement for press briefing by Chief Airport Officer/Corporate communication

7.6.4 Action by Chief Airport Officer

- Keep informed the following: COR/Collector/UPSDMA
- He will obtain clearance from DGCA for the removal of wreckage and permit ATC to activate Disabled aircraft removal Plan in case of aircraft related disaster.
- Press/Media Briefing: Prepare a press brief & meet the media & press as deemed fit. Chief Airport Officer/ Corporate communication is the official spokes persons of ALIAL and nobody else.

7.6.5 Actions by In-charge Airport Security and CISF:

As soon as information is received about Crash/Accident and any disaster inside the airport:

- Inform all gates to allow entry of Fire brigade /Ambulance and doctors and other responding agencies to the incident site.
- Dispatch one squad or mobile or any other vehicle to site. Do not cross-runway without ATC permissions, in case of operational area.
- Cordon the Crash site/assist the fire & rescue operations.
- Assist for evacuation.
- Guard the bag and baggage and other property on the site in coordination of police.
- He shall coordinate with Traffic police to keep the Traffic lanes free for the movement of ambulances on the city side.

7.6.6 Action by City Police:

As all access control etc. within the airport is the responsibility of Airport Security (CISF) even then the city police will be informed and they shall arrive at the crash site.

The duties of Police if disaster occurred inside the airport:

- Assists the airport security & fire brigade at crash site.
- Maintain law and order
- Traffic Control to & from the airport in order to facilitate the carriage of injured to hospitals.
- Prepare a list of passengers as per their requirement.
- Take care of any VIP passenger if on board and his security etc.
- Allow customs & immigration activities under their control.
- Help the airport management and Airlines to handle the situation.
- Police authorities may dispose of the dead bodies of passengers in accordance with their procedures and in consultation with Airlines/owner of the aircraft concerned.

If Aircraft accident occurred outside the boundary

- The Superintendent of Police dispatches a police squad to the site.
- This squad on reaching will take over supervision of the site.
- Prevent public interference with rescue operations
- Guard property, bag and baggage and aircraft
- Maintain law& order & facilitate transportations of casualties
- Protect the wreckage and trail of aircraft till the investigations are over & wreckage taken over by the concerned airline.

- Assist outside responding agencies.

7.6.7 Action by City Fire Services:

- Reach at the Rendezvous point or disaster site of the airport as soon as possible and co- ordinate/Assist with Airport Fire Services for further action.
- In case of fire, start fire-fighting with suitable media when called to do so by Airport Fire Service and also take care of surrounding environment.
- Search and identify the risk and nullify the sources.
- To search and evacuate the affected population from the site of the disaster by using their available special equipment etc.

7.6.8 Role and Responsibility of Airlines Operator:

- Provide all the manifests to ALIAL& Public information counter and send his representative to the Terminal Manager office, domestic terminal.
- Collect & produce all the details of POB, male & females, VIP's Indians, foreigners & nationalities.
- Arrange transport and coaches for dead, survivors & injured for hospitals.
- Arrange attendants for the hospitals where passengers are hospitalized their admission & whereabouts', liaisons etc & other requirements.
- Liaise with hospitals for medical of involved bodies & survivors.
- Immediately send representatives to the crash site, Fire Station Control Room and Casualty Centre.
- In case radioactive material/ammunition/explosives etc. are carried on board as cargo, it shall be immediately informed to ATC & Fire Brigade and act according to the procedure. Dispatch Technical/Engineering staff to the crash site or aircraft related disaster site to assist rescue of Victims and cutting the Electrical Connections against Fire Hazard.
- Arrange to establish Public Relations Cell in Terminal Building for the convenience of the next of kin/relative of the affected passengers.
- Deploy special category of staff at various locations to look after the survivors of the crashed aircraft including the catering requirements.
- Immediately dispatch copies of flight Passenger Manifest through Head Ops ALIAL to Control Tower.
- Notify the Head Ops ALIAL at Public Relation Cell in Terminal Building with a request to arrange necessary announcements on PA system/display.
- Concerned airline representative must be available at the Fire Station or disaster site to maintain proper accountability of the casualties and their disposal.

- On receipt of this information the same should be relayed by the coordinator to the following agencies:
  - Tower, AAI
  - Head Ops/Terminal Manager, ALAIL
  - Director of Air Safety, CAD
  - Airport Fire station (Refer annexure No. I for Telephone No)
- Organize transportation of crewmembers, if alive, for immediate blood urine collection.
- The affected airlines will arrange to take charge of the baggage of all the victims and survivors in co-ordination with the Customs and Police authorities after obtaining clearance from the Director of Air Safety/Inspector of Accident.
- The airline representatives will assist the next of kin/relatives of the dead/injured passengers to visit mini-morgue/hospital to identify their respective relations and welfare requirements.
- Will immediately arrange for wooden coffin along with the transport facility for the dead bodies, in co-ordination with the Police authorities.
- Segregate and seal all documents pertaining to the involved flight crew and aircraft.

7.6.9 Role and Responsibility of Indian Meteorological department:

It undertakes observations, communications, forecasting and weather services. Also can use INSAT for weather monitoring and communicate to the concerned agencies.

Keep watching continuously the weather condition during disastrous situation to alert various agencies and to avoid worst situation which will be occurred due to pre disaster.

7.6.10 Role and Responsibility of QRMT:

QRMTs consist of RSOs, medical doctors, nurses and paramedical staff would be equipped with monitoring instruments/equipment, PPEs, decontamination agents, other materials, critical care vans with resuscitation and life support system.

District health authority will constitute Quick Reaction Medical Teams (QRMT) for:

- Pre-hospital medical care

- To assist the specialized teams of NDRF through COR in providing necessary help in decontamination, triage and administration of de-cooperating agents, basic and advanced life support etc.
- QRMTS will form part of the regular mock-drill/simulation exercise or table top exercise.
- People affected with acute haemopoietic, gastrointestinal, coetaneous and CNS syndrome which requires special care would be shifted to the nearest Radiation Injury Treatment Centre. Names, addresses, destinations, and telephone numbers of those individuals are to be recorded who cannot be persuaded to stay at the incident scene.
- The civic authorities will make arrangements for dead body identification and management.
- The airport may provide assistance to the UPSDIA and other DM agencies by making available its resources to the DM agencies at all levels for the purpose of responding promptly and effectively to any impending disaster or subsequent to a disastrous event.

7.6.11 Role and Responsibility of COR

- On recommendation, State Govt. may declare disaster.
- To coordinate an effective emergency response and relief on occurrence of disaster.
- Prepare, review and update State level emergency plans and guidelines and ensure that the district level plans are prepared, revised and updated.
- Develop an appropriate relief implementation strategy for the State in consultation with the Authority, taking into account the unique circumstances of each district and deficiency in institutional capacity and resources of the State.
- Provide directions to the Collector and the local authority having jurisdiction over the affected area to provide emergency relief in accordance with disaster management plans to minimize the effects of disaster.

7.6.12 Role and Responsibility of the Collector

- Facilitate and, coordinate with, local Government bodies to ensure that the pre and post disaster management activities in the district (including C.C.S.I Airport) are carried out.
- Assist community training awareness programs and the installation of emergency facilities with the support of local administration, non-governmental organizations, and the private sector.

- Take appropriate actions to smoothen the response and relief activities to minimize the effect of disaster.
- Recommend COR and State Government for declaration of disaster.

CHAPTER-8

List of Equipment

The equipment available at the time of Disaster will be from Fire Services, MT section, and all the concerned airlines.

S.no	Equipment
1.	Crash Fire Tenders
2.	Ambulances
3.	Ladder
4.	Ropes
5.	Hydraulic power pack-spreader, cutter, jack
6.	Power driven saw (concrete, Metal, Wood)
7.	Breathing Apparatus set
8.	
9.	Fire Extinguishers
10.	
11.	Inflatable Lifting Bag
12.	Oxygen cylinder
13.	Stretchers
14.	First-Aid Boxes
15.	Ceiling Hook
16.	MT vehicles & Equipment

17.	Airlines Vehicles B Equipment
18.	Helmet with vision visor
19.	Gum Boots/Safety Shoes
20.	Gloves (Rubber/Asbestos)
21.	Fireman Axe
22.	Quick Release Knife
23.	Distress Signal Unit (OSU)
24.	Walkie-Talkies
25.	Mega Phone
26.	Towins Chains
27.	Hammer
28.	Crow Bar
29.	

CHAPTER-9

List of Contingency plans and Standard Operating Procedures available at CCSI airport

Contingency Plans	Standard Operating Procedures
Crash / Accident Airport Emergency Procedure	Air Side Management and Air Traffic Services
Disaster Management Plan	Safety Rules & Regulations Handbook for Airside
Bomb Threat Contingency Plan	SOP for maintenance Personnel at C.C.S.I Airport
Contingency Plan for handling Hijack situation and other acts of unlawful interference at CCSI Airport	Safety Assessment of SOPs
Contingency Plan for Handling of Non-Scheduled Int'l Aircraft Forced-to-Land Disabled Aircraft Removal Plan	Handling of WIP flights

Contingency Procedure for degraded mode of ATS operation at C.C.S.I Airport, Lucknow.	Disposal of Bio-Medical Waste
Dangerous Goods Handling Plan	Fuel / Oil Spillage
Evacuation Plan — Terminal 1 &2	
Evacuation Plan (Fire) - ATS bldg.	Wildlife Hazard Management
	Testing of Fire Alarm System

Chapter - 10

Intervention levels for various actions of Relief & Rescue teams

Intervention levels are defined as per the level of disaster:

L concept has been developed to define different levels of disasters at C.C.S.I Airport in order to facilitate the responses and assistances to States and Districts.

L0 level denotes normal times which will be utilized for close monitoring, documentation, prevention and preparatory activities at C.C.S.I Airport. Training on search and rescue, rehearsals, evaluation and inventory updation for response activities will be carried out during this time.

LI level specifies disaster that can be managed at the C.C.S.I Airport, District level, however, the State will remain in readiness to provide rescue and relief assistance, if needed.

L2 level disaster situations are those, which require rescue and relief assistance and active participation of the District and State, mobilization of its resources for management of disasters.

L3 level disaster situation is in case of large scale disaster where the State and District authorities have been overwhelmed and require assistance from the Central Government for reinstating the State and District machinery as well as for rescue, relief, other response and recovery measures.

CHAPTER -11

First Responder's Response

This Airport Disaster plan specifies the jobs of all the functionaries who have assigned roles during the disasters. Actions shall be balanced and commensurate with the level of severity and shall not create unnecessary anxiety and panic among the people.

Broadly,

- First-aiders (Fire Fighting & Rescue Services) will perform the actions involving mobilizing and operating the incident command, overseeing victim triage,

- CISF will cordon the site, managing and controlling the perimeter,
- ATC & Terminal Management will provide notification & activation of the special teams, provide traffic and access control.

Terminal Management in co-ordination with Airlines will provide protection to at-risk and special population, providing resources support and requests for assistance, providing public information, and outreach and communication activities.

ALIAL will hand over the scene to UPDMA and other specialized agencies which will be sent by COR and on their arrival, ALIAL will continue to play the supporting role.

Whereas the airport emergency services are capable of providing greater response in case of other disasters, in case of Biological, Nuclear & radiological emergencies, only the essential activities mentioned below are carried out in the proximity of the incident site prior to the arrival, or consultation with the qualified professionals:

- Alert the staff, passengers and general public (if so required) by sounding the emergency siren and making an emergency announcement.
- Inform the local police, City Fire Station, DDMA, SDMA, ERC and medical authorities as per the pre coordinated Airport DM Plan
- Identify and isolate the affected area. In case of an explosion, seal off the inner zone of 400 m radius from the blast site as 'No Entry Area' except for emergency measures. For a suspected RDD incident, an initial inner-cordoned area (safety parameter) of 400 m is recommended. This will be extended based on actual radiological monitoring, beyond the initial area, to a place where the actual dose rate is 100 Micro Gm/hr. at 1 m from the ground.
- Establish and supervise an access and de-contamination point as near as possible to the safety perimeter (upwind, inside the safety perimeter) where the ambient dose rate is close to background Position in the upwind direction of the incident especially where fire is present.
- Restrict entry to the area of the incident.
- The area downwind direction of the fire, especially if smoke and ash are involved, will be cleared of people, even if they are residents.
- Perform life-saving rescue and emergency first aid for serious injured. If radioactive contamination is suspected, the rescue will be carried out by

taking extreme safety of rescuer. If situation out of control then wait for the specialized team which will be equipped with CBRN equipment.

- While responding to any fire, fire personnel will be cautioned that radioactive material may be present by ATC.
- Keep to an absolute minimum, any contact with radioactive material and suspected contamination material. Clothing and tools used at the scene will be disposed off as radioactive material with the help of special CBRN team and do not attempt to move or clean up any material involved.
- Prohibit eating, drinking and smoking in the incident area.
- Identify assembly points for persons trapped in affected areas. Evacuate the persons to the assembly points.

CHAPTER - 12

Infrastructure to be developed/upgraded

Infrastructure pertaining to communication network, transport and sheltering common to all disaster response mechanism must be ensured available all the time or readily available when required.

The following basic infrastructure will be developed / upgraded:

- Standardized and reliable PPE in number sufficient to meet the requirements of all first responders.
- Portable, simple to operate, and rugged field detection equipment which has high sensitivity and specificity. ALIAL's first responders which in all probability will reach at the site before other agencies like Police, NDRF etc. should have some simple portable monitoring instruments which will warn them as they approach the radiation source (say a blast of RDD).
- Specialized HAZMAT vehicle for the collection, detection and speedy field characterization.
- The development of mobile decontamination facility.
- Mobile command vehicle should be available at C.C.S.I Airport.

CHAPTER -13

Alert System and Reporting

The Emergency Response Plan (ERP) will have an adequate mechanism for proper planning and coordination with different responders, emergency functionaries and logisticians. It is important to have an inbuilt alert system that

will activate the definitive specialized response .For this purpose, a well-rehearsed and standardized alert system will be evolved. Communication and Networking act as a key for an effective response to any disaster.

The information network will also include effective communication network to quickly analyze and identify contaminants at the incident site.

Alert Mechanism-Early warning and Reporting

Earthquakes	IMD,ISR
Cyclones	IMD
Drought	Agriculture Department
Epidemics	Health & Family Welfare Department
Industrial & Chemical Accidents	Industry, Labor & Employment Department, DISH
Radiological/ Nuclear	Specialized CBRN team (in NDRF)
Aircraft crash / Airport Fire	ATC, Fire & Emergency Services, other agency

Early Warning Detection & Monitoring:

Detection and monitoring is the responsibility of UPDMA. Mechanism for detection and monitoring may be deployed for specific hazards at the airport.

CHAPTER -14

Co-Ordination of Emergency Response

The response to any disaster must be implemented with clear division of responsibilities and clear lines of communication among the various organizations involved, in order to avoid delay and confusion.

Sr No.	Organization/ Agencies/ Services	Key Function/Responsibility
1	ALIAL - Airport Fire Service	Aircraft rescue and fire-fighting operation • Pre accident / Post-accident fire protection • Support for triage activities • Evacuate injured passengers to hospitals • Support for structural fire-fighting and evacuation • Support for mitigation of Disasters like earthquake, accidents/ incidents, cyclone etc. • Support to Disaster management team. • Provide standby Fire vehicle as and when required.
2	Airside Management/ Operations	• Activate key officials and ground handling agent concerned • Muster airline's and ground handling agent's resources • Provide and direct ground service supports • Provide inputs to air traffic control in regard to runway and taxiway closure • Coordinate aircraft recovery and salvage operation
3	Terminal Management	• Activate key officials and other external agency/services such as hospitals, panel doctors, ambulance services, bureau of civil aviation security, immigration and customs • Activate the Emergency Response and Interaction Centre (ERIC) Group • Setup the Emergency Co-ordination Centre (ECC), Survivors Reception Centre (SRC), Friends and Relative Reception Centre (FRRC) and Reunion Area (RA) • Passengers facilitation and business recovery at terminal buildings • Support terminal building evacuation
4	Civil/Electrical Engineering	• Provide technical support and assistance • Support recovery efforts
5	Chief Airport Officer, C.C.S.I Airport	Media management Facilitate press releases and organization of press conferences
6	Air Traffic Services	• Activation and Termination of Crash Action, Full Emergency, Local standby, etc. • Air traffic management including issuing NOTAM (Notice To Airmen)

7	Police	As soon as information about crash received the Superintendent of Police will swiftly dispatch a police squad to the site. This squadron reaching will take over supervision of the site will: • Prevent public interference with rescue operations • Assisting law &order & facilitate transportation so casualties • Protect the wreckage and trait of aircraft till the investigations are over & wreckage taken over by the concerned airline. • Guarding of aircraft wreckage and preservation of evidence at the accident site including eye-witness accounts and photography • Custody of flight data and cockpit voice recorders. cargo's onboard including dangerous goods, and baggage/passenger belongings • Investigation and management of dead bodies including the identity establishment, mortuary arrangements and release of the bodies.
8	All Airlines operators	• Support overall crisis mitigation efforts e.g. accountability of passengers, management of Next of Kin, aircraft accident investigation, etc. • Support media management • Passenger and Next of Kin facilitation • Facilitate reunions of survivors and Next of Kin • Prepare and provide passenger and cargo manifests. • Report the aircraft accident or serious incident to the authorities concerned as stipulated under Aircraft Rules, 1937, Part X investigation of Accidents. • Salvage/removal of crashed or disabled aircraft.
9	Ground Handling Agent	Provide ground service staff and facilities including passenger steps, coaches, and aircraft towing Equipment.
10	Director General of Civil Aviation (DGCA)	• Set standards and directions for dealing with all aviation related emergencies. • Aircraft accident/incident investigation • Authorize release of dead bodies, cargoes on board including dangerous goods, baggage, and removal of Crashed/disabled aircraft.
11	Airport CISF	Dispatch a mobile or a squad to site. This group of CISF after reaching the site will perform similar actions as laid down till

		arrival of state police. e.g.:- • Cordon the aircraft/incident premises, area Guard property, bag & baggage • Maintain law & order • Assist fire & rescue operations.
12	State Fire & Emergency Services	The state Fire & Emergency Services are crucial immediate responders during any disaster and play a vital role in saving lives and property immediately after a disaster.
13	COR	• COR has a primary responsibility of coordinating an effective emergency response and relief on the occurrence of a disaster. • Prepare, review and update State level emergency plans and guide lines and ensure that the district level plans are prepared, revised and updated. • Develop an appropriate relief implementation strategy for the State in consultation with the Authority, taking into account the unique circumstances of each district and deficiency in institutional capacity and resources of the State. • Provide directions to the Collector and the local authority having jurisdiction over the affected area to provide emergency relief in accordance with disaster management plans to minimize the effects of disaster.
14	NOMA	It is the apex body for Disaster Management is headed by the Prime Minister and has the responsibility for laying down policies, plans and guidelines for DM and co coordinating their enforcement and implementation for ensuring timely and effective response to disasters.
15	Airport Operations Coordination Committee (AOCC)	The AOCC can act as the focal point to address the airport related needs and requirements of all the DM agencies Involved in relief operations

CHAPTER-15

Preparedness Level

Training:

Regular training would be provided to all personnel who have a role in planning and operational response to an emergency.

The training objectives are:

- To familiarize personnel with the contents and manner of implementation of the plan and its procedures:
- To train personnel in the performance of the specific duties assigned to them in the plan and in the applicable implementation procedures.
- To keep personnel informed of any changes in the plan and the Implementing procedures.
- To maintain a high degree of preparedness at all levels of the Emergency Response Organization.
- Train new personnel who may have moved within the facility Organization: Test the validity, effectiveness, timing and content of the plan; and
- Update and modify the plan on the basis of experience acquired through Exercises and drills.

Mock Drills and Exercises:

Mock drills constitute another important component of emergency preparedness and refer to the re-enactment, under the assumption of a Mock scenario of the implementation of response actions to be taken during an emergency.

Mock drills and integrated exercises have the following objectives.

- To test, efficacy, timing, and content of the plan and implementing Procedures
- To ensure, that the emergency organization personnel are familiar with their duties and responsibilities by demonstration;
- Provide hands-on experience with the procedures to be implemented during emergency; and
- Maintain emergency preparedness.

The frequency of the drills would vary depending on the severity of the hazard. However, drills would be conducted once in a two year. Scenarios may be developed in such a manner as to accomplish more than one event objective. Drills and exercises will be conducted as realistically as is reasonably practicable. Planning for drills and exercises would include:

Basic objectives:

- Dates, times and places; Participating organizations.
- Events to be simulated.

- Approximate schedule of events.
- Arrangements for qualified observers; and
- An appropriate critique of drills/exercises with participants.

Evaluation of drill and exercises would be carried out which include comments from the participants and observers. Discrepancies noted by the drill observers during the drill shall be pointed out.

The individual responsible for conducting the drill or exercise would prepare a written evaluation of the drill or exercise. The evaluation would include assessments and recommendations on:

- Areas that require immediate correction.
- Areas where additional training is needed;
- Suggested modifications to the plan or procedures; and
- Deficiencies in equipment, training, and facilities.
- Records of drills, exercises, evaluations, and corrective actions would be duly maintained

Documentation:

The serviceability Status of safety vehicles, tools &equipment, communicational facilities, air traffic related facilities etc. are to be checked and documented. Also, the proficiency reports of all the sections are to be documented.

- Records of drills, exercises, evaluations and corrective actions would be duly maintained by all concerned sections.
- Incident, Accident returns shall be documented.
- Training, meeting with other responding agencies to be documented.
- Airport familiarization of outside rescue team to be carried out and documented.
- Participation of outside responding agencies in full scale mock up exercise and to be documented.
- MOU between C.C.S.I Airport and City Fire Brigade to be documented and updated as and when required.
- Directions from Ministry of Home Affairs, National Disaster Management Authority, Government of India, etc. can be implemented by documentation.
- Lessons learnt from any disaster event in other states and countries.
- Recommendations from all departments in their Annual DM Report also be considered on review.

- Updation of DM plan periodically or as when required.

CHAPTER-16

Incident Command

Incident Command System

- The incident command system and its procedures are designed in such a way that information can be promptly assessed and relayed to concerned parties.
- Immediate dissemination of information contributes to quick response and effective deci9ion-making during emergency.
- Being the main coordination and control point for all disaster specific efforts the Incident command system is the place of decision-making, under unified command.

The Primary function of Incident command system is:

- Receive, monitor and assess disaster information
- Keep track of available resources
- Monitor, assess, and track response units and resources requests
- Manage resource deployment for optimal usage.
- Make policy decision and proclaim local emergencies as needed.
- Provide direction and management for operations through Standard operations guide (SOG), set priorities and establish strategies.
- Coordinate operations of all responding units, including law enforcement, fire, medical, logistics etc.
- Augment comprehensive emergency communication from incident command system to any field operation when needed or appropriate.
- Maintain security and access control.
- Provide recovery assistance in response to the situations and available resources
- Keep seniors, subordinates and tenant officials informed
- Keep local jurisdictions and other agencies informed.
- Operate a message center to log and post all key disaster information.

- Develop and disseminate public information warnings and instructions.
- Provide information to the news media.

Mobile Command Post:

The MCP will be deployed to the accident site by the Airport Fire Service and be positioned at a distance of not less than 10m upwind from the aircraft.

The MCP will be headed by Chief Airport Fire Service and In-charge Airside. When it is beyond the office hours, Duty Fire In charge (Shift-In- Charge) shall proceed to manage the MCP for the first hours until In-charge Airside operations/ Duty Manager Airside or Chief Airport Fire Service arrives.

Functions of the Mobile Command Post include:

- Establish communication
- Establish contact with other responding agencies which report at the crash site.
- Establish a staging area for all ground services equipment such as Tow tractors, passenger steps, and coaches reporting to the crash site.
- Establish an Assembly Area for the uninjured survivors.
- Secure and provide any assistance required by the doctors at the Triage Area.
- Arrange speedy evacuation of injured casualties to the hospitals.
- Liaise with the airline concerned to transport the uninjured and casualties; and Maintain and update a record of casualty evacuation status including: Number of casualties evacuated from the aircraft; and Number of casualties evacuated to the Emergency Medical Centre, hospitals and Survivors Reception Centre.

The effectiveness of Mobile command post to be observed in Full scale mock up exercise with respect to their functions. Any deficiency observed in the drill, will be corrected in future exercises.

At present mobile command vehicle is not available at C.C.S.I Airport.

Chapter - 17

Logistic Supports and Exercises

Logistics management is the process of planning, preparing, implementing, and evaluating all logistics functions that support an operation or activities.

Resources are described by kind and type. All local resources must be committed before assistance is requested from neighboring jurisdictions, district, states or the central government.

A catastrophic event may severely hinder the ability of the local government to respond because many of the local government's staff members may also be adversely affected and its facilities may no longer be available; communications may be severely disrupted; the number of people needing assistance may be very large, debris, high water, blocked roads, etc. may impede movement; equipment loss and other factors may impair functional capabilities. However, the logistical support of resources is an extremely critical factor in the successful management of disaster response and recovery efforts.

Organization and Assignment of Responsibilities: The provision of effective logistics support can be very complex and especially challenging in a catastrophic event, so volunteer staffing should be identified, trained and exercised/employed in advance of a catastrophic disaster. At a minimum, the EOC Logistics Section staffing should include a:

1. Logistics/Resource Management Section Chief –Chief Airport Officer (CAO)

2. Deputy Section Chief- as designated by CAO

3. Services and support Branch Chief: All concerned section head

A truly catastrophic event is not disaster business as usual. For example, personnel who are normally identified to perform the Logistics Section staffing may be too busy doing other things during a catastrophic event to effectively cover logistics and resource management functions as well. To perform this function appropriately, Management Section may need to organize into two or more unite /sub units:

- At C.C.S.I Airport, Communication unit shall be responsible to provide communication facilities to all sections and outer agencies. No matter whether the disaster occurs inside or outside C.C.S.I Airport.
- At C.C.S.I Airport, First aid room is available at International Terminal Building. In case of disaster, outside medical team will report to rendezvous point and subsequently escorted by fire staff to Disaster site. First aid room In-charge shall assist them for all, medical activities.

- If disaster occurred at C.C.S.I Airport, supply of food, shelter etc. will be done by Airlines/ Terminal management/ HR / Finance section. Local volunteer agencies can also be the part of it.

- Points of Distribution System (PODS) operations will be established at C.C.S.I Airport for deployment; recovery, redeployment; reutilization; and disposition of materials, equipment, supplies, fuel and services; demobilization; and documenting all transactions. To accomplish this, CAO will constitute committee for smooth and safe handling the situation.

- Support includes facilities and space for logistics staging areas, points of distribution, warehousing, base camps etc. will be decided by CAO at the time of forming committee.

- Logistics will develop the traffic plan and coordinate the prioritizing, planning, ordering, sourcing, and acquisition for transportation resources and services; developing time-phasing plans and movement coordination and tracking; may terminal transfer operations at staging sites; overnight storage for vehicles, maps and directions for responding personnel, emergency towing and repairs, designating fuel, oil, and water depots, and coordinating with law enforcement to help ensure deliveries at the right places and times. At C.C.S.I Airport MT In-charge will look after the above activities in coordination with CAO, Terminal manager and other support team.

- Operations conducts evacuation operations, but logistics may help with providing transportation assets for special needs citizens and those without transportation, helping provide for mass movement needs such as vans, buses, aircraft, trucks, etc., and emergency route refueling and temporary repairs for those with vehicles; helping coordinate voluntary entities provide first aid and mass care support such as in transit temporary sheltering, rest area management, food and water, human services, transport and security; as well as facilities identification and management for destination mass care sites for citizens displaced by ordered evacuation, or by self-evacuation due to emergency/disaster events.

C.C.S.I Airport will assist to all support agencies for all above activities. Formed committee / concerned section will take care of these.

CHAPTER-18

Evacuation Plan

Prompt evacuation of casualties may be required to be carried out from the incident site, and of people living or working in the vicinity of the site who are likely to get exposed or come under severe threat of contamination, during a chemical attack. The evacuation plans will be prepared and categorized in two broad groups:

a) Evacuation from the incident site
   - If any emergency including CBRN occurred at (T1, T2, & ATS) buildings, the evacuation of occupant shall be done as per Evacuation plan.
   - If there is a bomb threat at airport partial or full evacuation shall be done as per Bomb Threat Contingency Plan available at C.C.S.I Airport.

b) Evacuation of the Community under Possible Threat of a disaster
   The evacuation planning will include information of the defined route, the availability of NBC filter-fitted ambulances (in case of CBRN Disasters) with specialized paramedical staff, 24 Hrs. available at T1 & T2 building and specialized facilities available with earmarked hospitals, keeping in view the prevalent and forecasted meteorological conditions and level of contamination.

Some components of the civil aviation authorities need to be upgraded and equipped with modem facilities for the management of enhanced need of evacuating a large number of casualties.

The support zone, casualty collection center and ambulance parking area will be provided with collective protection. Prompt removal of victims from the hot zone shall be ensured. Casualties from the hot zone of the incident site will be transported to the designated earmarked health care facility after providing BLS, necessary triage and decontamination procedures.

CHAPTER - 19

MEDIA MANAGEMENT

DM plan will have an appropriate mechanism for effective communication with the public through media management.

CAO or Corporate Communication shall prepare a press brief & meet the media & press as deemed fit. Chief Airport Officer is the official spokes persons of AAIAL and nobody else.

CHAPTER - 20

Term Planning

All identified activities under the action plan for disaster management are implemented under the following three types of Term Planning as listed below:

a) Short-Term Plan (0-3 Years)
b) Medium-Term Plan (0-5 Years)
c) Long-Term Plan (0-8 Years)

a) Short-Term Plan (0-3 Years)

It incorporates disaster specific risk reduction measures.

- MOU between C.C.S.I Airport and City Fire brigade.
- Periodical Inspection and maintenance of building
- Monitoring of all disaster alert warnings by IMD
- Maintenance of safety service vehicles/ rescue equipment etc.
- Inspection / maintenance of Navigation aids
- Runway inspection
- Aerodrome surface marking/Lightings as per standards
- Serviceability of Aircraft
- Advanced notification to the airport, if DG in cargo.
- Storage and Handling according to the prescribed national rules, guidelines DGCA regulation, ICAO Annex 18 and Doc 9284.
- Protection of environment and property
- Prevention of deterministic health effects in individual
- Maintain Good Housekeeping.
- Developing policies and practices to avoid similar situations in future.
- Implementation of financial strategy for allocation of funds for various projects.
- Provision for temporary decontamination facilities and sensitization programme for the airport community about self-decontamination procedures.

- Testing various elements of the emergency plan through table-top exercises and mock- drills
- Overall capacity development including human and resource development, training, education and knowledge management. Special training should be conducted at training Centre.

b) Medium-Term Plan (0W Years)

- Public utility structure design as per standards
- All engineering works as per standards.
- Equipping first responders with all material logistics and backup support.
- Identifying infrastructure needs for formulating mitigation plans.
- Establishment of physical and collective protection, detection technologies, decontamination agents and associated manpower.
- Imparting adequate knowledge on various types of disasters, their properties, possible modes of dispersal, use of PPE etc. Special training should be conducted at training center.
- Knowledge on various types of CBRN agents etc., different modalities and methods of decontamination and sources of their availability and principles of triage for CBRN casualties. Special training should be conducted at training Centre.
- Imparting adequate knowledge on various types of chemical agents including TICs/TIMS, GW agents etc., their properties, possible modes of dispersal, use of PPE, different modalities and methods of decontamination and sources of their availability, principles of triage for chemical casualties.
- Awareness programmers for first aid and self-decontamination procedures.
- Continuation and updation of HRD activities.
- Frangible structures in operational area
- Testing of DM plan in Mock exercise.

c) Long-term Plan (0-8 Years)

- Disaster resister design and construction of public utility structure.
- Identification and removal of unsafe buildings /structure. Reconstructed, if needed.
- Secure communication network for first responders; build redundancy in communication networks by in-built repeaters optimally positioned

for incident communication, and a self- healing grid for telecommunication and other utility networks.

- Development of simulation models for testing the efficacy of plans for continuous improvement at training centre.

List of equipment Available with outside agencies

1. Khalsa Crane Services Transport Nagar

   (Material Handling Equipment & Services)

   Available Equipment's- Heavy Crane, Forklift. Hoist. Pallet Truck. Material

   Handling Equipment Phone No-0522 - 2438376

   F-18, Transport Nagar, Lucknow — 226012

2. Shakitman Crane Service

   Faizabad Road Phone No-9984724799

Semera Village, Faizabad Road, Lucknow — 283126

3. Bharat Diesels

   Latouche Road

   Phone No-0522 - 2230074

   110/56, Naya Gaon East, Banerjee Street, Harinth, Latouche Road, Lucknow- 226018

In the event radioactive materials ore suspected the following general procedures should be followed:

The nearest nuclear energy facility, hospital with a radiological unit military base or civil defense organization should be required to dispatch immediately a radiological team to the accident site.

If the dangerous goods accident / incident involving radioactive material occur in the airport shall liaise with following Persons.

Department of Atomic Energy, Weal Blocko7, R.K.Puram, New Delh1-66.

Contact Person- Mr. C.L.Bhairam. Regional Director (NR) Contact No-011-26101450 (Office). Mobile-09868501123 or Dr.Pradip Kumar, Mobile: 9869270285

or Dr. D.N.Sarma. Director at Mumbai

Mobile-09869427151.

Annex -01

Chapter - 21

CONTACT DETAILS

NATIONAL DISASTER MANAGEMENT AUTHORITY (NDMA)

Force Head Quarters

Name	Designation	Address	Telephone No.	Fax No.	E-Mail
Shri S N Pradhan (IPS)	Director General	Directorate General, NDRF, 6th Floor, NDCC-II Building, Jai Singh Road, New Delhi - 110001	011-23438020, 011-23438119	011-23438091	dg.ndrf@nic.in
Shri Amrendra Kumar Sengar (IPS)	Inspector General	-- Do --	011-23438021	011-23438091	ig.ndrf@nic.in
Ms Nishtha Upadhyay	Financial Advisor	-- Do --	011-24368148	011-23438091	--
Mr. Mohsen Shahedi	Deputy Inspector General (Proc/Prov)	-- Do --	011-23438022	011-23438091	digprov-ndrf@nic.in
Shri Manoj Kumar Yadav	Deputy Inspector General (Trg/Pro /Academy/NCDC/East & North East Sector)	--Do--	011-23438140	011-23438091	dig.es.ndrf@nic.in
---	Deputy Inspector General (Estt/ Ops / North-West Sector)	--Do--	011-23438023	011-23438091	dig.ns.ndrf@nic.in
Shri K K Singh	Deputy Inspector General (Adm/Works/South Sector)	-- Do --	011-23438185	011-23438091	dig.ss.ndrf@nic.in
Shri V V N Prasanna Kumar	Commandant (PROC/PROV/NDRR)	-- Do --	011-23438183	011-23438091	--
Dr. Amit Murari	CMO (SG)	-- Do --	011-23438091	011-23438091	cmo-ndrf@gov.in
Shri Daulat Ram Chaudhary	Second-in-Command (DDO)	--Do--	--	011-23438091	--
Shri Upendra Pratap Singh	Deputy Commandant (ADM)	--Do--	--	011-23438091	hq.ndrf@nic.in
Shri Pranshu Srivastava	Deputy Commandant (Trg)	--Do--	011-23438138	011-23438091	hq.ndrf@nic.in
Shri Rakesh Ranjan	Deputy Commandant (OPS)	--Do--	011-23438024	011-23438091	hq.ndrf@nic.in
Shri Surendar Kumar	Deputy Commandant (Engineer)	--Do--	--	011-23438091	--
Shri Deepak Bamoriya	DC (IT/COMN/PRO)	--Do--	011-23438024	011-23438091	deep.del@gov.in
Shri Bhawani Singh	AC(ADM & SO to DG)	--Do--	011-23438118	011-23438091	dc.adm.ndrf@nic.in
Shri S Raghavindra	AC/MIN	--Do--	011-23438091	011-23438091	hq.ndrf@nic.in
Control Room	--	--Do--	011-23438091, 011-23438136	011-23438091	hq.ndrf@nic.in

NDRF Units

Name	Designation	Address	Telephone No.	Fax No.	Mobile No.	Unit Control Room No.	E-Mail
Sh. Hitender Pal Singh Kandari	Commandant	1st BN NDRF, Patgaon PO - Azara,Distt. Kamrup Metro, Guwahati-781017	0361-2840027	0361-2849080	--	0361-2840284 07637011337 09435117246	assam01-ndrf[at]nic[dot]in
Sh. Nishit Upadhyay	Commandant	2nd BN NDRF, Near RRI Camp. Haringhata, Mohanpur, Nadia, (West Bengal) Pin - 741246	033-25875032	033-25875032	-	033-25875032 09474061104 09474116775	wb02-ndrf[at]nic[dot]in
Sh. Jacob Kispotta	Commandant	3rd BN NDRF, PO-Mundali, Cuttack - Odisha Pin - 754013	0671-2879710	0671-2879711	--	0671-2879711 09437581614	ori03-ndrf[at]nic[dot]in
Ms. Rekha Nambiyar	Commandant	4th Bn NDRF, PO - Suraksha Campus , Arrakonam , Distt. Vellore Tamilnadu-631152	04177-246269	04177-246594	--	04177-246594 09442140269	tn04-ndrf[at]nic[dot]in
Sh. Anupam Srivastava	Commandant	5th Bn NDRF, Sudumbare Taluka, Distt - Maval Pune (Maharashtra) Pin - 412109	02114-247010	02114-247008	--	02114-247000 09422315628	mah05-ndrf[at]nic[dot]in
Sh. A. K. Tiwari	Commandant	6th Bn NDRF, Jarod Camp,Teh-Wagodia, Vadodara, Pin - 391510	02668-274470	02668-274245	--	02668-274245 09723632166	guj06-ndrf[at]nic[dot]in
Sh. Ravi Kumar Pandita	Commandant	7th Bn NDRF, Bibiwala Road, Bhatinda (Punjab) Pin 151001	0164-2246030	0164 - 2246570	--	0164-2246193 0164-2246570	pun07-ndrf[at]nic[dot]in
Sh. P.K.Tiwari	Commandant	8th Bn NDRF, Kamla Nehru Nagar, Ghaziabad (UP) Pin - 201002	0120-2766013	0120 - 27666012	--	0120-2766618 09412221035	up08-ndrf[at]nic[dot]in
Sh. Vijay Sinha	Commandant	9th Bn NDRF, Bihata Patna, Bihar Pin - 801103	06115-253942	06115-253939	--	06115-253939 08544415050 09525752125	patna-ndrf[at]nic[dot]in
Mr. Zahid Khan	Commandant	10th Bn NDRF, ANU Campus, Nagarjuna Nagar, Guntur (AP) Pin - 522510	0863-2293178	0863-2293050	--	0863-2293050 08333068559	ap10-ndrf[at]nic[dot]in
Sh. A.K.Singh	Commandant	11 th Bn NDRF, Sanskritik Sankul, Maqbool Alam Road, Varanasi, UP - 221002	0542-2501201	0542 - 2501101	--	0542-2501101 08004931410	up-11ndrf[at]gov[dot]in
Sh. Rajesh Thakur	Commandant	12 th Bn NDRF, Itanagar, Arunachal Pardesh791112	0360-2277109	0360-2277106	--	0360-2277104 09485235464	bn12[dot]ndrf[at]gov[dot]in

Name of RRC	Landline Number	Mobile Number
NDRF RRC, Port Blair, Andaman	03192289174	09442112269
NDRF RRC, Adayar, Chennai	04424420269	09442112269
NDRF RRC, Vizag Steel Plant, Vishakhapatnam, Andhra Pradesh	--	08333068565 08333068560
NDRF RRC, Fire Station Mahadevapura, Bengluru, Karnatka	--	09482978719 09482978715
NDRF RRC, Shaikpet Sport Complex, Hyderabad, Telangana	04023565666	08333068536 08333068547

Contact Us

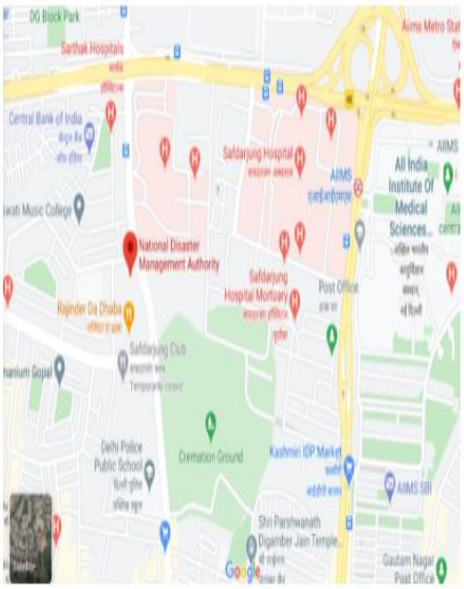
- **Postal Address:**

NDMA Bhawan
A-1, Safdarjung Enclave
New Delhi - 110029

View on Map

Telephones:
+91-11-26701700 (Mon-Fri - 9:30AM-6:00PM)
Control Room: +91-11-26701728 (Mon-Fri 24X7)
Fax: +91-11-26701729

E-mail: controlroom@ndma.gov.in



Contact Details of NDMA Officers

MEMBERS

Name	Office	Fax	Mob.	E-mail id
Dr. Pradeep Kumar, IAS, Secretary I/C	011-26701710	011-26701716		secretary@ndma.gov.in
PPS	011-26701711,	011-26701716		
Mr. D S Butola PA	011-26701713			-
Lt Gen (Retd) N C Marwah, PVSM, AVSM, Member	011-26701775	011-26701783		marwahnc.ndma@nic.in
Smt Seetha Mahesh, PS to Member	011-26701721	011-26701783		seetham.ndma@nic.in
Shri Vijaya Kumaran, PA to Member	011-26701782	011-26701783		
Dr. D N Sharma, Member	011-26701738	011-26701767		dnsharma@ndma.gov.in
Sh. Sanjay Kukreja Sr. PPS to Member	011-26701761	011-26701767		
Shri Kamal Kishore, Member	011-26701740	011-26701754		kkishore@ndma.gov.in

Contact Us - National Disaster Management Authority

Sh. S K Gulati, PPS to Member	011-26701751	011-26701754		
Shri Basudev Rajbhar PA to Member	011-26701753			

JOINT [illegible]

Name	Office	Fax	Mob	Email id
Sh. Ramesh Kumar Ganta, IAS **JS (Admin)**	011-26701718	011-26701864		jsadm@ndma.gov.in
Ms.G V Lakshmi PPS	011-26701884			
JS (Mitigation)	011-26701718	011-26701864		mitigation@ndma.gov.in
PPS/PA	011-26701864			
Brig. Ajay Gangwar **Advisor (Ops & Communication)**	011-26701886	011-26701742		advopscomn@ndma.gov.in
Sh. Himanshu Awasthi, PA	011-26701765			
Dr. V.Thiruppugazh, Joint Secretary (Policy & Plan)	011-26701777	011-26701816		jspp@ndma.gov.in
Ms Indira, PA	011-26701747			
M.Sanjay Singh, PA	011-26701816			

[illegible]

Name	Office	Fax	Mob	Email id
Shri Ravinesh Kumar **FA,**	011-26701709	011-26701715		fa@ndma.gov.in
Sh. Bharat Bhushan, PPS	011-26701712			

Name	Office	Resi	Mob	Email id
Anurag Rana JA (IT & [illegible])	011-26701743			jaitcomn@ndma.gov.in
Col Amit Khajuria JA (CBT)	011-26701880			
Lt Col Rahul Devrani JA (RR)	011-26701815			rahuldevrani.120l@gov.in
Dr. Pavan Kumar Singh JA (OPS)	011-26701788			ja.ops@ndma.gov.in
Pushkar [illegible] JA (MP & [illegible])	011-26701798			jampp@ndma.gov.in

Contact Us - National Disaster Management Authority

Vijay Singh Nemiwal JA (Mitigation)	011-26701815			nemiwal.v@gov.in
Alice Kujur, Director (PP)	011-26701733			dspp@ndma.gov.in
Dir (Finance)	011-26701778			
Yogeshwar Lal, Director (Admin)	011-26701833			yogeshwarlal@ndma.gov.in
Bhupinder Singh, Director (PR & AG)	011-26701878	011-26701878		awareness@ndma.gov.in

NCRMP

Name	Office	Fax	Mob.	Email id
Dr. Pradeep Kumar IAS, Project Director	011-26701777 011-26701791 (PPS) 011-26714321			pd.ncrmp@gov.in
Shri. Samir Kumar, BRES Dy. Project Director	011-26701792			dpd.ncrmp@gov.in
Shri Ashok Kumar Sarkar, Project Accountant cum Admn. Officer	011-26701744			aom.ncrmp@gov.in

NDMA CONTROL ROOM

Name	Office	Fax	Mob.	Email id
Control Room	011-26701728 011-1078	011-26701729	9868891801 9868101485	controlroom@ndma.gov.in ndmacontrolroom@gmail.com

Note - Print Margin Should be Top-7,Bottom-5,Left-5,Right-5 and Scale-Shrink To Fit

S.No	Name of IPS Officer	Rank	Post Held/ Unit	CUG / Mobile No.	Office No.	Email Id
1	KALANIDHI NAITHANI	SP	SSP/LUCKNOW	9454400290	0522-2628965	ssplkw-up@nic.in
2	VIKRANT VIR	SP	SP(RA)/LUCKNOW	9454401083	-	
3	SUKIRTI MADHAV	SP	ADDL.SP (NORTH)/LUCKNOW	9454458038	-	
4	AMIT KUMAR-II	SP	ADDL.SP (TG)/LUCKNOW	9454401086	-	
5	ABHISHEK VERMA	ASP	ASP(U/T)/LUCKNOW	9454405156	-	
6	IRAJ RAJA	ASP	ASP (U/T)/LUCKNOW	9411825169	-	

S.No	Name of IPS/PPS Officer	Post Held/ Unit	Posted As (Post In District)	CUG / Mobile No.	Office No.	Email Id
1	ASHTABHUJA PD SINGH	ADDL SP(CRIME)/LUCKNOW		9454401986	-	
2	RUCHITA CHAUDHARY	ADDL SP(SECURITY)/SECURITY HIGH COURT		9454458186	-	
3	SURESH CHANDRA RAWAT	ADDL SP(EAST)/LUCKNOW		9454401087	0522-2611165	
4	VIKAS CHANDRA TRIPATHI	ADDL SP(WEST)/LUCKNOW		9454401088	0522-2622217	
5	POORNENDU SINGH	ADDL SP(TAFFIC)/LUCKNOW		9454401085	0522-2235879	
6	DEVESH KUMAR SHARMA	ADDL SP(PROTOCOL)/LUCKNOW		9454401084	0522-2627831	
7	DURGESH KUMAR SINGH	DSP/LUCKNOW			-	

8	ANIL KUMAR YADAV	DSP/LUCKNOW	9454401496	0522-2241222
9	DURGA PRASAD TEWARI	DSP/LUCKNOW	9454401491	0522-2255200
10	ABHAY KUMAR MISHRA	DSP/LUCKNOW	9454401495	0522-2625143
11	AVNISHWAR C SRIVASTAVA	DSP/LUCKNOW	9454401499	0522-2349793
12	AMIT KUMAR RAI	DSP/LUCKNOW	9454401497	0522-2221702
13	LAL PRATAP SINGH	DSP/LUCKNOW	9454401490	0522-2470795
14	SANJEEV KUMAR SINHA	DSP/LUCKNOW	9454401489	0522-2453016
15	DEEPAK KUMAR SINGH	DSP/LUCKNOW	9454401186	-
16	SWATANTRA KUMAR SINGH	DSP/LUCKNOW	9454401494	0522-2324930
17	MISS TANU UPADHYAY	DSP/LUCKNOW	9454405234	-
18	SYED NAIMUL HASAN	DSP/LUCKNOW	9454405153	-
19	SAMIKSHA PANDEY MISS	DSP/LUCKNOW	9454401501	-
20	DR BEENU SINGH	DSP/LUCKNOW	9454401500	-
21	SHESHMANI PATHAK	DSP/LUCKNOW	9454401492	-
22	SANTOSH KUMAR SINGH-III	DSP /LUCKNOW	9454401498	0522-2389207

Mahila Samman Prakoshtha
9454401149

DM Office Officials

Name	Designation	Email	Address	Phone	Room No.
Sh.Kaushal Raj Sharma	District Magistrate	dmluc(at)nic(dot)in	Room No.49 DM office Qaisar Bhag Lucknow	9415005000	49
ADM E	ADM E	Adme(dot)lu-up(at)gov(dot)in	Room No.48 DM office Qaisar Bhag Lucknow	9415005002	48

IMPORTANT TELEPHONES Annex -02

SL NO	Name of the Important Persons/Agencies	Telephone Numbers		
		Telephone Office	Fax	Email ID
01	Chairman AAI	01124632930	01124641088	chairman@aai.aero
02	Member (OPS)	01124651400	01124610233	memberops@aai.aero
03	Member (ANS)	01124631969	01124629567	memberans@aai.aero
04	Executive Director (ATM)	01124631684 09910666368	01124611078	edatm@aai.aero
05	Executive Director (OPS)	01124621628, 09971666759	01124621623	edopsaai@aai.aero
06	R.E.D.(NR)	011-25652343,	01125656451	red_nr@aai.aero
07	General Manager (FS), CHQ	011-24651296 09868277208	011-24651296	gmfire@aai.aero
08	Director (Air Safety), DGCA	09911360971		
09	Regional Safety Officer	09911579981		
10	Ops Control Room.CHQ	011-24610843,	011-26493963	opsctrl@aai.aero

IMPORTANT TELEPHONES

SL. No	Name of the Important Persona/Agencies	Telephone plumbers	Mobile Numbers
01	Chief Airport Officer		6359922122
02	Jt.GM(CNS)	2201,2437504	7408412314
03	Jt.GM(ATM)	2301,2436923	9839309218
04	DGM(ATM-SQMS)	2309,2438003	7408563222
05	DGM(Civil)		8005147366
06	AGM Airport)	2611,2626	7408240999
07	AGM(Electrical)		9935672806
08	On Duty Airport Manager	2611,2626, 2431 143	

09	CISF Commandant	2701	9621677666
10	CISF Control Room	2438861	
11	Airport Fire Station In-Charge	2438003	9628918075
12	State Fire Service	101	
13	Chief fire Officer (state Fire) Lko	2614444	9454418344
14	Fire Station Sarogini Nagar	Hot Line	9454418656
15	Fire Station I-lazratgang	2622222	9454418642
16	Fire Station Alambagh	2455555,	9454418648
17	Fire Station PGI	26081 11,	0454418848
18	Police Control Room	100, 2629989	
19	DIC Police	2825983to)2625984(R)	
20	CO Krishna Nagar	9454401490	
21	SP EAST	2611165;	9454401087
22	Police Station Sarogini Nagar	2436600	
23	Police Station Hazratgang	2622555	
24	Police Station Alambagh	2451205	
25	Police Station I rishna Nagar	2470606	
26	Station Manager Air India	2838600,2638400	98390M976
27	Station Manager, Jet Airways	2434010,2431750	2300522
28	Station Manager Spice Jet	9554285264	
20	Station Manager Indigo	9839239687	
30	Station Manager Go-Air	8853098001	
31	Station Manager Soudia	9695777744	
32	Station Manager Oman Air	9935079882	
33	S.M Ground Handling Agent Indo Thai	7607684555	
34	JI.Director, State C/A UP Govt.	243756,2430504	2206135 (R)
35	Controller of Air-worthiness	2435402,2437590	2435778 (R)
30	Director, Met Dept.	2435407,9451242872	2436783 (R)
37	Customs, Lucknow Airport	2438018,9956786712	2431878 (R)
38	Immigration, Lucknow Airport	2431746,8090001866	

Abbreviations

ALIAL- Adani Lucknow International Airport Limited
CAO-Chief Airport Officer
DM —-Disaster Management
NDMA— National Disaster Management Authority
NDRF ---National Disaster Response Force
SDMA ----State Disaster Management Authority

DDMA-— District Disaster Management Authority
NEC -—National Executive Committee
GOI— Government of India
ICAO—International Civil Aviation Organization
IATA—- International Air Transport Association
BCAS--—Bureau of Civil Aviation Security
IDNDR—-International Decade for Natural Disaster Reduction
IMD---— Indian Meteorological Department
CBRN —--Chemical, Biological, Radiological and Nuclear
NCMC —---National Crisis Management Committee
MHA ---—Ministry of Home Affairs
UTs—- Union Territories
DGCA-—-Directorate General of Civil Aviation
MoCA- - Ministry of Civil Aviation
RDD Radiological Dispersal Devices
IND ----improvised Nuclear Services
CPMFs-- Centre Para Military Forces
CMG---- Crisis Management Group
NASARM —National Aeronautical Search and Rescue Manual
AEP -----Airport Emergency Plan
UN —----United Nations
IDNDR -—--International Decade for Natural Disaster Reduction

----------END OF DOCUMENT----------

ANNEXURE – 18

प्रारूप-घ (संलग्नक-3)
Provisional Certificate

यूआईडी संख्या: UPFS/2019/3220/LCK/LUCKNOW/149/JD

दिनांक:13-02-2019

प्रमाणित किया जाता है कि मैसर्स **AIRPORT AUTHORITY OF INDIA** (भवन/प्रतिष्ठान का नाम) पता **67.CCS INTERNATIONAL AIRPORT LUCKNOW,KANPUR ROAD,LUCKNOW** तहसील - **SAROJNINAGAR** जिसमें तलों की संख्या **2** एवं बेसमेन्ट की संख्या **1** है जिसकी ऊँचाई **30.00 mt.** तथा प्लाट एरिया **364730 sq.mt** है। भवन का अधिभोग **AIRPORT AUTHORITY OF INDIA** (भवन स्वामी/ अधिभोगी अथवा कम्पनी का नाम) द्वारा किया जायेगा। इनके द्वारा अग्नि निवारण एवं अग्नि सुरक्षा के समस्त प्राविधानों का समायोजन एन0बी0सी0 एवं ततसम्बन्धी भारतीय मानक ब्यूरो के आई0एस0 मानकों की संस्तुतियों के अनुरूप किया गया है। इस भवन को प्राविजनल अनापत्ति प्रमाण पत्र (एन0बी0सी0 की अधिभोग श्रेणी) **Assembly** के अन्तर्गत इस शर्त के साथ दिया जा रहा है कि प्रस्तावित भवन मे सभी मानकों का अनुपालन किया जायेगा तथा भवन के निर्माण होने के उपरान्त तथा भवन के अधिभोग से पूर्व अग्नि एवं जीवन सुरक्षा प्रमाण पत्र (Fire & Life Safety Certificate) प्राप्त किया जायेगा।

निर्गत किये जाने का दिनांकः **21-02-2019**

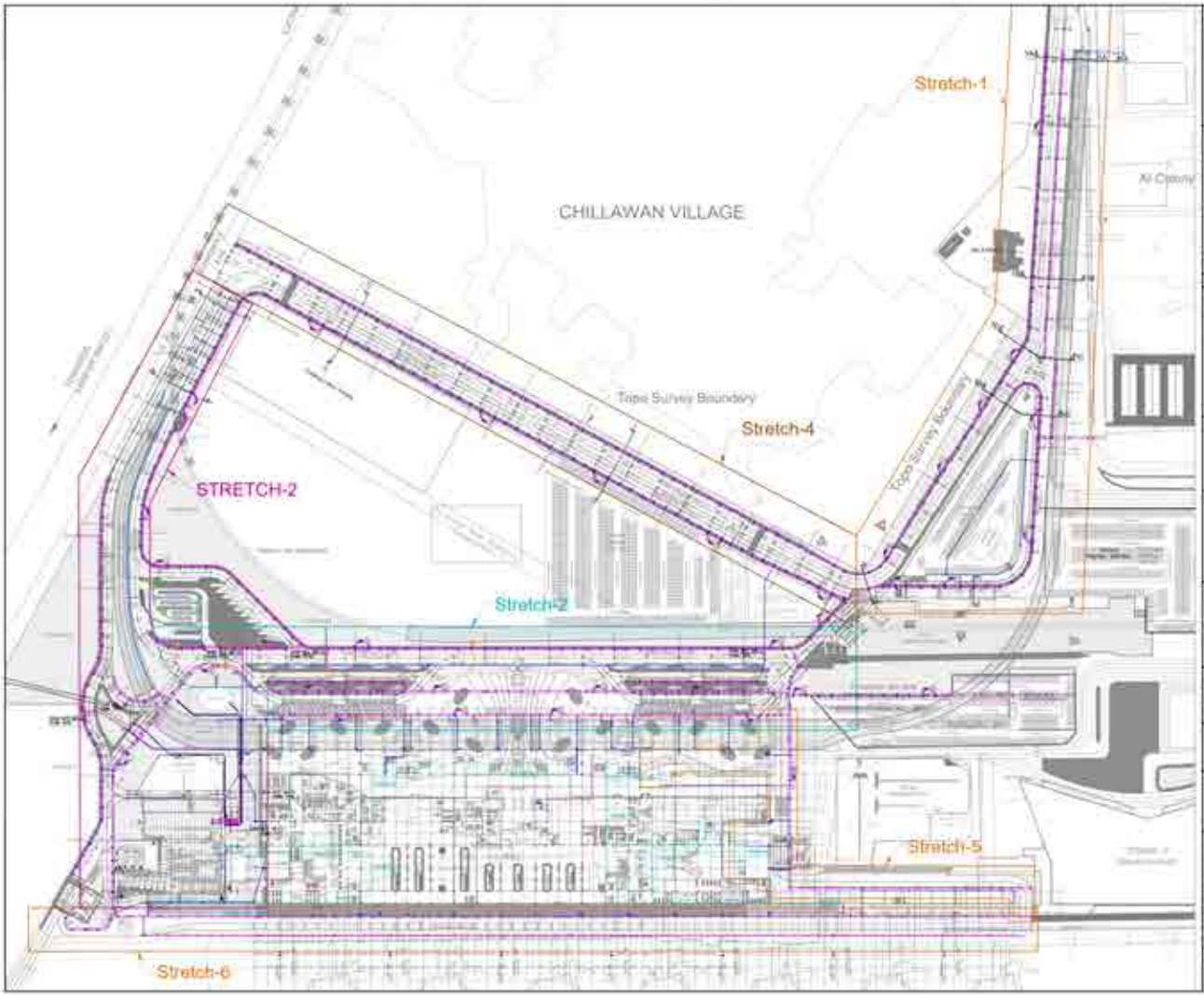
स्थान: **LUCKNOW**

हस्ताक्षर-

निर्गमन अधिकारी-

Digitally Signed By
(J.K. SINGH)
[E85D61AD0F8A2BD94F73AB2AA750DCA0A3BD50BB]
21-02-2019

ANNEXURE – 19



KEY PLAN

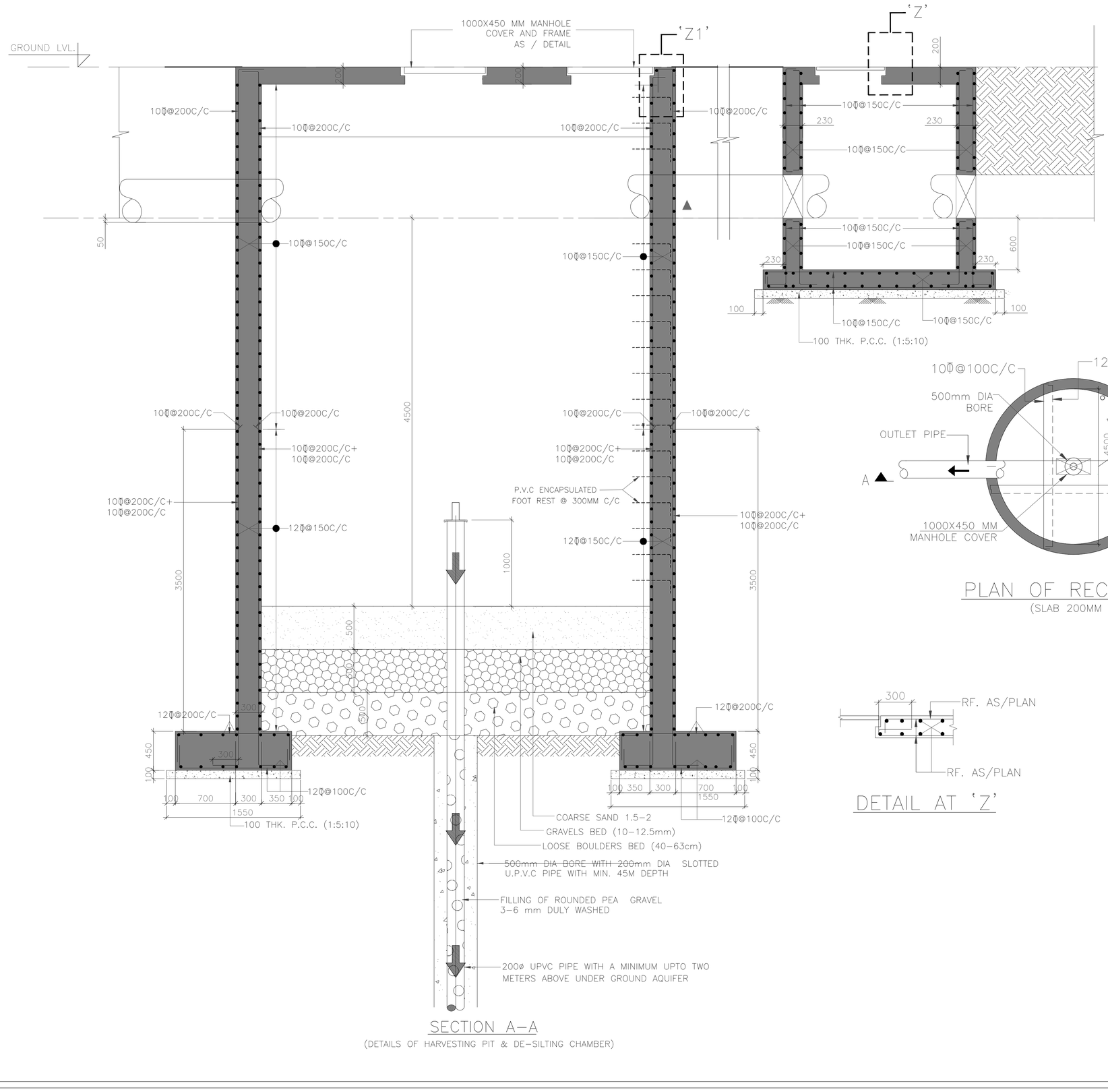
adani

Egis India

MEHRO CONSULTANTS

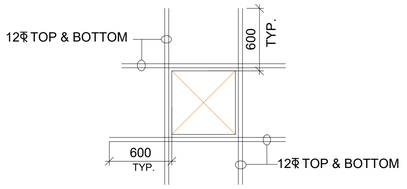
CONSTRUCTION OF NEW INTEGRATED PASSENGER TERMINAL BUILDING AT ADANI INTERNATIONAL AIRPORT, LUCKNOW

WORKING DRAWING

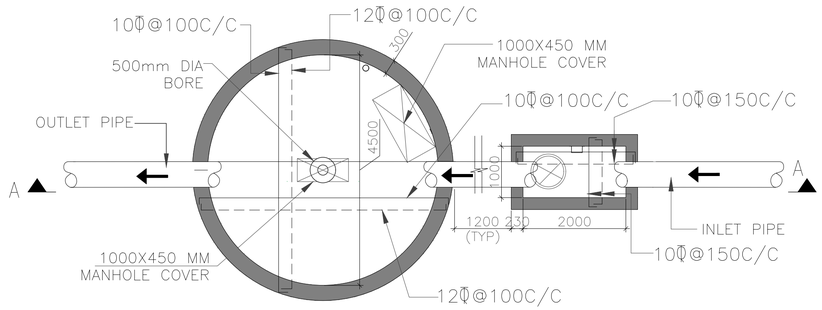


SECTION A-A

(DETAILS OF HARVESTING PIT & DE-SILTING CHAMBER)



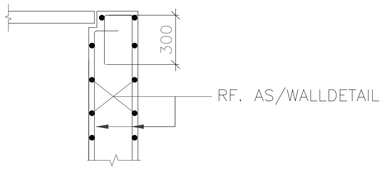
TYPICAL CUTOUT DETAIL IN RETAINING WALL / SLAB



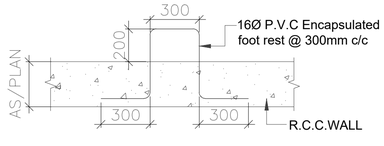
PLAN OF RECHARGE PIT

(SLAB 200MM THK.)

DETAIL AT 'Z'



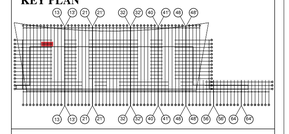
DETAIL AT 'Z1'



TYPICAL DETAIL OF RUNG LADDER

(IN PLAN)

KEY PLAN



GENERAL NOTES -

A. ALL DIMENSIONS ARE IN MM UNLESS MENTIONED OTHERWISE.
B. NO DIMENSIONS ARE TO BE SCALED FROM THIS DRAWING.
C. THIS DRAWING SHALL BE READ IN CONJUNCTION WITH RELEVANT ARCHITECTURAL AND STRUCTURAL DRAWINGS.
D. ALL DIMENSIONS MUST BE VERIFIED ON SITE BEFORE COMMENCING ANY WORK OR PREPARING ANY SHOP DRAWINGS. IN CASE OF ANY DISCREPANCY, THE SAME SHOULD BE BROUGHT TO THE NOTICE OF THE ARCHITECT & GOT CLARIFIED BEFORE EXECUTION OF WORK.
E. STEEL REINFORCEMENT FOR R.C.C. WORK SHALL BE T.M.T. BARS OF GRADE Fe 500D CONFORMING TO I.S. 1786-2008.
F. CONC. GRADE SHALL BE M30 (U.N.O.)

REVISIONS

NO.	DESCRIPTION	DATE	BY
R1	REVISED AS PER ARCH	10.10.2021	MANU
R0	FOR G.F.C.	24.05.2019	SANJAY

PROJECT

CONSTRUCTION OF NEW INTEGRATED PASSENGER TERMINAL BUILDING AT C.C.S. INTERNATIONAL AIRPORT, LUCKNOW

CLIENT

AIRPORTS AUTHORITY OF INDIA

CONSULTANT / CLIENTS' REPRESENTATIVE

egis India
Consulting engineers pvt. ltd.

EGIS TOWER, PLOT NO. 66, SECTOR - 32
GURUGRAM, HARYANA - 122001
TEL: +91 124 4249200, FAX: +91 124 4249299

SUB- CONSULTANT

SAA sikka associates architects
· masterplanning
· urban design
· interior designing
· project management
A-21, AFRICA AVENUE, SAFDARJUNG ENCLAVE, NEW DELHI-110 029, INDIA
T: +91.11.4323.5235 | F: +91.11.2629.4481 | e: saa@saainda.net | w: www.saainda.net

STRUCTURAL CONSULTANT

MEHRO CONSULTANTS
Structural Engineering Division
C-36, PAMPOSH ENCLAVE, GK-1
New Delhi -110048, India.
Tel : 011 - 46023052, 43141516, 46023893
E-Mail : vjain@mehroconsultants.com
info@mehroconsultants.com

	NAME	SIGNATURE	DATE
APPROVED	Dr. VINOD JAIN		24.05.2019
CHECKED	JAVED KHAN		24.05.2019
DESIGNED	SAKSHI		24.05.2019
DRAWN	NARENDER/ SANJAY		24.05.2019
ISSUE	GOOD FOR CONSTRUCTION		

TITLE:

RAIN WATER HARVESTING & DE-SILTING CHAMBER DETAIL

DRG. NO.:	LKO_WD_B_STR_0100_DW_061X
SCALE	N.T.S.
DATE	MAY, 2019
REV.	R1
SHEET	1

ANNEXURE – 20

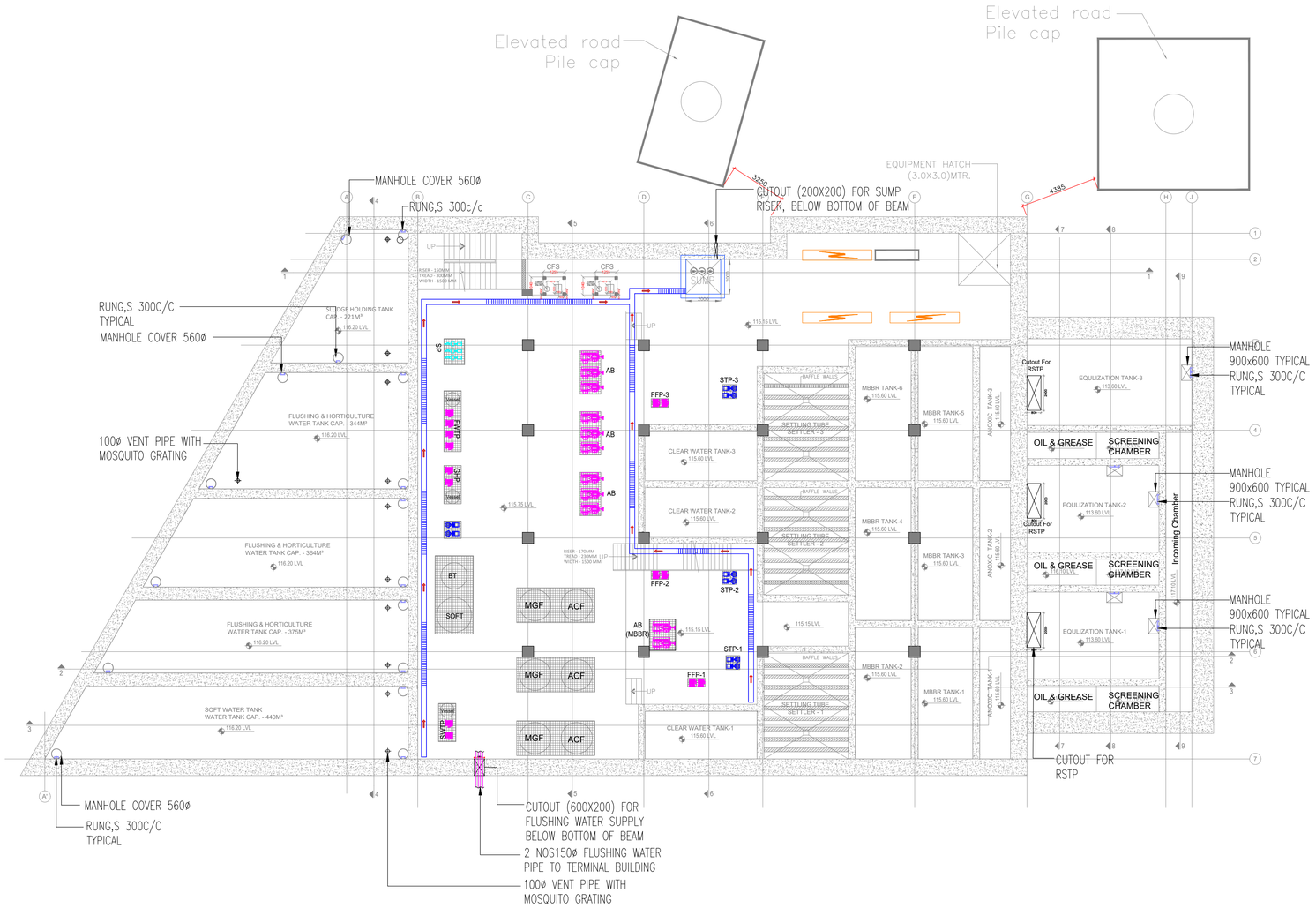
Construction of STP of 1950 KLD capacity in 3 modules of capacity 650 KLD each based on MBBR technology is under progress.(Design layout as below)

MBBR technology

MBBR treatment system is based on the aeration system in which the screened raw sewage is allowed to develop the required bacterial growth in a reactor/ Aeration tank. The tank is filled with specially developed propriety high quality plastic media which is in the form of corrugated sheets and configured as per BOD load to be treated as per manufacturer's recommendation. The plastic media which has been specially developed by the industry for such applications offers a large surface area as compared to conventional surface aerator or diffused aeration system. The media with provides large surfaces areas, provides efficiency in the treatment process and enable large bacterial flocks developed in the aeration to stick to the media and assist rapid aeration of the entire mess of liquid. Retention of the flocks (Sludge) by the media reduces the sludge volume. The volume of sludge developed in the process is in low and reduces pumping and handling problems. The mixed liquor then separates the sludge and the effluent in a separate a gravity settling tank. Although the quantity of sludge is less in volume it to be disposed-off in a neat and hygienic manner and disposed-off in a designated location.

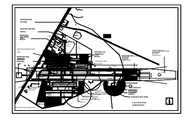
- Raw sewage from main sewer line will be collected through pipes via gravity into the screen chamber. This manually cleaned screen will be provided to remove floating and big size particles which may otherwise choke the pumps and pipe lines.
- After screening, the waste water will be allowed to pass through an OGT to remove the grit material. The screens and grease trap shall be accessible so that they may be manually cleaned from time to time.
- The screened and waste water from the OGT should then pass into the equalization tank to homogenize the waste water quality and also even out flow fluctuations and feed waste water of uniform quality at constant rate to subsequent treatment units. Air mixing should be provided to mix the contents of the equalization tank. A coarse bubble aeration grid shall be provided to mix the contents of the equalization tank and also to avoid septic conditions in the tank.
- From the equalization tank the wastewater will be pumped into anoxic Tank. By-pass line shall be provided from the pumping system which shall only be provisional for disposal of sewage to mobile sewage tanker for emergency purposes.
- From the anoxic tank the wastewater will be overflowed into MBBR Tank.
- The MBBR process uses small plastic carrier elements to provide growth sites for bacteria attachment in a suspended growth medium. The carrier elements shall allow a higher biomass concentration to be maintained in the reactor. This shall increase the biological treatment capacity for the given reactor volume.

- The carrier elements shall be continuously kept in suspension by the aeration system. The agitation pattern in the reactor shall be designed to provide an upward movement of the carriers across the surface of the retention screen which creates a scrubbing effect to prevent clogging. Combination of fine & coarse bubbles may be provided to provide oxygen as per detailing.
- From the MBBR tank mixed liquor shall flow by gravity into the secondary settling tank. The solids will settle in the tank. The sludge that settles down shall be transferred to sludge holding tank via sludge loading pumps, with provision of sludge return to the bioreactor if necessary.
- From the settling tank, treated wastewater will flow into chlorine contact tank. In this tank, chlorine will be added in the form of calcium or sodium hypochlorite solution by a suitable chlorinator/Dosing system.
- Treated water after chlorine contact tank shall be clear, odourless, low BOD, low suspended solids, which shall be of quality which is acceptable as per standards prescribed by CPCB/Environmental norms.
- The treated water from chlorine contact tank is fed by means of filter/softener feed pump sets to pass through dual media filters, activated carbon filters and softeners and stored in the treated water and soft water storage tanks. The activated carbon filters shall ensure removal of all coloration and odours present in the treated effluent. The soft water shall be of Zero Commercial Hardness. Backwash of Filters and regeneration of softeners shall be done intermittently as per requirements.
- The filtered, clean and odorless water from treated water tank is then fed through a variable frequency drive hydro-pneumatic system to the external treated effluent rings as per the site plan, from where connections are taken to the garden hydrant system and to each unit for flushing water as per detailing.
- The softened, clean and odorless water from soft water tank is then fed to HVAC Plant Room by a separate variable frequency drive hydro-pneumatic system.
- According to the guide lines of Ministry of Environment and Forest the UV system will be provided on the discharge point of treated effluent supply lines to ensure 100% pathogen free treated water for recycling and re-use. The UV system shall be provided as online installation on the treated water supply line being supplied to the external distribution ring.
- Excess sludge from the secondary settling tank will be taken periodically into sludge holding tank. In this tank sludge will be aerated for self-stabilization. Air will be shut off periodically and superannuate water will be transferred to the aeration tank creating stabilized sludge. The final sludge shall be de-watered through a centrifuge mechanism. Sludge loading arrangements shall also be provided for direct disposal of sludge to sludge tankers / trolleys.



SYMBOL	DESCRIPTION
SFP	SOFTNER FEED PUMP
FFP	FILTER FEED PUMP
SLP	SLUDGE LODING PUMP
SRP	SLUDGE RETERN PUMP
FWSP	FLUSHING WATER SUPPLY PUMP
SSP	SOFT WATER SUPPLY PUMP
GHP	GARDENHYDRANT PUMP
AB	AIR BLOWER
ACF	ACTIVATED CARBON FILTER
DMF	DUAL MEDIA FILTER
SOF	SOFTNER
RSP	RAW SEWERAGE RE-LIFT PUMP FOR COLLECTION TANK
UV	DISINFECTION SYSTEM FOR FLUSHING WATER SUPPLY
CNT	CENTRIFUGE
DS	DOSING SYSTEM
SUMP	PLANT ROOM DRAINAGE SUMP

KEY PLAN:



GENERAL NOTES -

1. ALL DIMENSIONS ARE IN MILLIMETRES UNLESS NOTED OTHERWISE.
2. DIMENSIONS ARE TO BE READ & NOT SCALED.
3. ALL LEVELS MENTIONED SHALL BE FINISHED LEVELS UNLESS OTHERWISE NOTED.
4. THIS DRAWING SHALL BE READ IN CONJUNCTION WITH OTHER RELEVANT ARCHITECTURAL, STRUCTURAL & SERVICES DRAWINGS ALONG WITH SPECIFICATIONS.
5. ALL DIMENSIONS MUST BE VERIFIED ON SITE BEFORE COMMENCING ANY WORK OR PREPARING ANY SHOP DRAWINGS. IN CASE OF ANY DISCREPANCY, THE SAME SHOULD BE BROUGHT TO THE NOTICE OF THE ARCHITECT & GOT CLARIFIED BEFORE EXECUTION OF WORK

REVISIONS

NO.	DESCRIPTION	DATE	BY
R1	REVISED STP LAYOUT	10-08-2020	MKG
R0	ISSUE FOR GFC	30-01-2019	MKG

PROJECT

CONSTRUCTION OF NEW INTEGRATED PASSENGER TERMINAL BUILDING AT C.C.S. INTERNATIONAL AIRPORT, LUCKNOW

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TEL: +91 124 4249200, FAX: +91 124 4249299

SUB- CONSULTANT

sikka associates architects
A-2/1, AFRICA AVENUE, SAFDARJUNG ENCLAVE, NEW DELHI-110 029, INDIA
T: +91.11.4323.5235 | F: +91.11.2629.4481 | e: saa@saaindia.net | w: www.saaindia.net

SUB- CONSULTANT

SANITARY & FIRE FIGHTING CONSULTANT:

MKG CONSULTANTS
CONSULTING ENGINEERS BASEMENT
A-8,PARYAVARAN COMPLEX
INDRA GANDHI NATIONAL OPEN UNI. RD.
NEW DELHI- 110 030, INDIA
PHONE: 011-29532257 , 29532720

	NAME	SIGNATURE	DATE
APPROVED	M.K.GUPTA		10-08-2020
CHECKED	N.GUPTA		10-08-2020
DESIGNED	S.SHUKLA		10-08-2020
DRAWN	PARVESH		10-08-2020

GOOD FOR CONSTRUCTION

TITLE:

SEWERAGE TREATMENT PLANT LAYOUT

DRG. NO.:	LKO_WD_I_PL_0200_DW_4031
SCALE	1:125@A1
DATE	10-08-2020
REV.	R1
SHEET	1 OF 1

ANNEXURE - 21

F. No. 10-47/2017-IA.III
Government of India
Ministry of Environment, Forest and Climate Change
(IA.III Section)

Indira Paryavaran Bhawan,
Jor Bagh Road, New Delhi – 110003

June17th, 2021

To,

Mr. Suresh Chandra Hota
Chief Airport Officer
M/s Adani Lucknow International Airport Limited
First Floor Terminal 1,
CCSI Airport, Lucknow-226009, U.P.
Email: info@adani.com

Subject: Expansion of Lucknow Airport in Respect of Construction of New Integrated Terminal Building and Allied Facilities at Lucknow, Uttar Pradesh - Transfer of Environmental Clearance (EC)-reg.

Sir,

This has reference to your online application/proposal No. IA/UP/MIS/209817/2021 through Parivesh Portal regarding transfer of EC to the above mentioned project from M/s Airport Authority of India (AAI) to M/s Adani Lucknow International Airport Limited (ALIAL), Lucknow.

2. The Ministry had earlier issued amendment in EC to the project for Expansion of Lucknow Airport in Respect of Construction of New Integrated Terminal Building and Allied Facilities at Lucknow, Uttar Pradesh.

3. M/s Adani Lucknow International Airport Limited has informed that the concession agreement has signed on 14.02.2020 for Operation, maintenance, management & development of Choudhary Charan Singh International Airport, Lucknow between AAI and M/s Adani Lucknow International Airport Limited. As per the agreement, with effect from the commercial operation i.e. 02.11.2020. ALIAL is responsible to comply to all the applicable conditions, as stipulated under the issued EC for new integrated terminal building and allied facilities issued by the Ministry vide even number dated 26.09.2018.

4. M/s Adani Lucknow International Airport Limited has submitted a copy of undertaking/NOC as signed by the authorized signatory to abide by the terms and conditions stipulated in the EC granted vide letter No. 10-47/2017-IA.III dt 26.09.2018 issued by the Ministry of Environment, Forest and Climate Change to the M/s Airport authority of India (AAI).

5. As per the relevant provisions of the EIA Notification 2006, the EC to the project for Expansion of Lucknow Airport in Respect of Construction of

New Integrated Terminal Building and Allied Facilities at Lucknow, Uttar Pradesh granted by the Ministry of Environment, Forest and Climate Change vide letter No. 10-47/2017-IA.III dt 26.09.2018 is hereby transferred from M/s Airport Authority of India to M/s Adani Lucknow International Airport Limited, on the same terms and conditions.

6. This issues with the approval of the competent authority.

(Dr. Dharmendra Kumar Gupta)
Director (S)

Copy to:

1. The Secretary, department of environment, Government of Uttar Pradesh, Lucknow
2. The Addl. Principal Chief Conservator of Forests (C), Ministry of Environment, Forest and Climate Change, Integrated Regional Office (CZ), Kendriya Bhawan, 5th Floor, Sector "H" Aliganj, Lucknow - 226020
3. The Chairman, Central Pollution Control Board Parivesh Bhavan, CBD-cum-Office Complex, East Arjun Nagar, New Delhi - 110 032.
4. The Member Secretary, Uttar Pradesh Pollution Control Board, Building No. TC-12V, Vibhuti Khand, Gomti Nagar, Lucknow-226 010
5. Monitoring Cell, MoEF&CC, Indira Paryavaran Bhavan, New Delhi.
6. Guard File/ Record File/ Notice Board
7. MoEF&CC website.

(Dr. Dharmendra Kumar Gupta)
Director (S)