

balance water requirement is met through two tube wells of AAI existing within the airport. As part of the extension of the runway, only construction water will be required. Permission from CGWA has been obtained vide letter no. TC-22A/NWHR/02/2066 dated 21.03.2002.

- (v) It is estimated that about 700 KVA of power is being consumed. The power is taken from Power Distribution Department, J&K
- (vi) Terms of Reference (ToR) was granted by MoEF&CC vide F.No.10-19/2015-IA.III dated 14th August, 2015. The ToR validity was extended for another one year from 14th August, 2018 to 13th August, 2019 vide F.No.10-19/2015-IA.III dated 9th October, 2018.
- (vii) Public hearing was conducted by J&K Pollution Control Board on 12th December, 2018.
- (viii) Investment Cost of the project is Rs. 92 Crores.
- (ix) Employment potential: The existing airport operation has provided livelihood to a number of local residents. There will be indirect employment of local people by utilizing their expertise in different areas like horticulture, site clearing etc. Also, due to secondary development in the study area, employment opportunities will be generated.
- (x) Benefits of the project: The activities help in rapport and confidence building with communities to make them good neighbors. Direct benefits (jobs, training) make them pro-airport and build their stake in the operations of airport. Airport operations benefit with supply of good manpower from nearby areas, thus creating a win-win situation. The socio-economic development in the region will lead for enhancement of quality of life of people in the region. So, based on the above, it can be said that the proposed project will result in further improving the infrastructure facilities of the area.

3. The project/activity is covered under category 'A' of item 7(a) 'Airports' of the Schedule to the EIA Notification, 2006 and its subsequent amendments, and requires appraisal at Central Level by sectoral EAC.

4. The proposal was considered by EAC (Infra-2) in its 41st meeting held during 27-29 May, 2019. It was noted that public consultation was conducted by J&K PCB on 12.12.2018. The issues were raised regarding plantation, green belt development, traffic management, employment opportunities to locals, CSR activities and EMP activities etc. The Committee noted that issues have satisfactorily been responded by the project proponent and incorporated in the final EIA-EMP report. The project proponent has informed that total land required for extension of runway is 57 acres, out of which about 17 acres of land is under possession of army for which working permission is being pursued and the remaining 40 acres of land is already under possession of AAI. The project proponent has further informed the EAC that Ramnagar Wildlife sanctuary is at a distance of 5.3 km toward NNE. The ESZ of Ramnagar Wildlife sanctuary is notified vide gazette S.O. 1167(E) dated 16.03.2016 and ESZ is declared as 1.85 km all around the sanctuary. The Airport site is about 3.45 km from the boundary of ESZ and hence NBWL clearance is not required for the project.

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During the deliberation, the EAC has raised some queries regarding details of proposed extension of runway and associated facilities, diversion of irrigation canals, handling of C&D Waste, Energy conservation, Dust generation and its control. The project proponent briefed the EAC on each query raised and also submitted written reply vide letter dated 28.05.2019 are as under:

➤ **Details of proposed runway extension, associated facilities and associated infrastructure for the Runway Extension:** The proposed extension of runway involves the following civil works:

- Extension of runway 36 (i.e. towards 18 side) by 396 m x 45 m to make total length of 2438 m;
- Strengthening of the extended portion of the runway to handle critical aircraft of "C" category (i.e. B-321);
- Construction of new turn pad after extension of runway on the left hand side and the dimension of turn pad should cater for maneuvering of D category of aircraft;
- Construction of blast pads of dimension 60 m x 60 m at the extreme of runway after extension; • Provision of runway shoulders of 7.5 m width on either side on the extended portion of runway;
- Provision of RESA of dimension 240 m x 150 m;
- The profile correction of existing runway surface for aerodrome reference code 4C;
- Leveling and grading of runway strip on the extended portion, RESA & further grading up to boundary wall as per transitional surface & drainage requirement;
- Provision of visual markings on the extended portion of the runway and turn pad;
- 2-3 irrigation canals passing through the site and needs earth filling as they are being diverted;
- Construction of boundary wall to be taken up at places where the area has been left uncovered in the area available for runway extension and or the land be handed over by army to provide appropriate number of security huts and perimeter lighting;
- Construction of perimeter road of 5 m width and of sufficient strength to withstand the crash fire tender, along the boundary wall and also on the land to be handed over by army;
- Demolition of boundary wall belonging to IAF behind runway 18;
- Provision of perimeter drainage in the runway extension area and pipe culvert to cross the runway for drainage work;
- Relocation of localizer and mounting of NF antenna in such a manner that the rod is frangible material and the platform flush with the surface along with dismantling of existing localizer building and boundary wall;
- Provision of security huts along the perimeter road to be constructed on the acquired land; and
- Levelling and grading for operational area.

➤ **Diversion of Irrigation Canals:**

2-3 irrigation canals passing through the site needs earth filling as they will be diverted. Further, diversion of proper drainage in the runway extension area and pipe culvert to cross the runway for drainage work. The new channel with

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approachable allied works, such as provision of installation of gate by mechanical irrigation construction division, road crossings, construction of aqueduct etc.

The state government has already constructed two new canals side by side outside the proposed land and the irrigation canals passing through the proposed land have been diverted. These canals are pucca with RCC lining and with adequate capacity to take care of discharge at the highest flood levels.

➤ **Handling of Construction & Demolition Waste:**

As a part of runway extension the existing brick boundary wall towards runway end 18 site will be demolished and new RCC boundary wall will be constructed as per the requirement of IAF. Further, the structures in army area have to be demolished for which alternative structures have already been created by the State Government.

These structures have been handed over to the Army and they have shifted. Further, Army has given permission to execute work in the 17 acres of land falling in the alignment of runway extension. The material retrieved out of demolition will be used for filling up the low lying areas in the proposed land as lot of earth filling is required to level-up and grade the area. Further, guidelines on environmental management of Construction & Demolition Waste Management Rules, 2016 will be complied.

➤ **Energy Conservation:**

The estimated power requirement is about 700 KVA. The power is taken from Power Distribution Department, Jammu & Kashmir. Further, it is planned to install Solar harnessing farm with a capacity of 300 KW as a part of green initiative at Jammu airport for which clearance has already been obtained. The work is being executed by Jammu & Kashmir Energy Development Agency (JAKEDA) under J&K (Government at an estimated cost of Rs.159 Lakhs with 60% central subsidy amounting to Rs. 95.40 Lakhs to be provided by MNRE, Gol (to be arranged by JAKEDA) and remaining 40% beneficiary share amounting to Rs. 63.60 Lakhs to be borne by AAI. With this, about 50% of the total power saving will be achieved.

➤ **Dust Generation & Its Control:**

The dust will be generated due to construction activity. The construction activity will be limited to the runway extension area and the following mitigation measures will be in place. Sprinkling of water and fine spray from nozzles to suppress the dust, proper barricading of the construction sites during construction. Finally, the entire graded area will be developed as green grass area.

5. The EAC, based on the information submitted and clarifications provided by the Project Proponent and detailed discussions held on all the issues, recommended the project for grant of environmental clearance with stipulate conditions. Based on the recommendation of the EAC, the Ministry of Environment, Forest and Climate Change hereby accords Environmental Clearance to the project 'Extension of Runway' at Jammu Airport (Jammu & Kashmir) by M/s Airports Authority of India with following specific conditions along with other Standard EC

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Conditions as specified by the Ministry vide OM dated 4th January, 2019 for the said project/activity while considering for accord of environmental clearance:-

A. SPECIFIC CONDITIONS:

- (i) The land acquisition / purchase shall be in conformity to the LARR Act, 2013 and any other laws and regulations governing land acquisition.
- (ii) Clearance from Directorate General of Civil Aviation (DGCA) and Airports Authority of India (AAI) for safety and project facilities shall be obtained.
- (iii) 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.
- (iv) 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.
- (v) Water requirement for the existing Airport is 193 KLD. Only 50 KLD water will be required during construction phase, no increase in water consumption for other operational activities due to Runway extension. Out of 193 KLD, about 30% is provided by Jammu Municipal Corporation (JMC) and the balance water requirement is met through two tube wells of AAI existing within the airport. No ground water shall be extracted without prior permission from CGWA.
- (vi) 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.
- (vii) Sewage Treatment Plant of 200 KLD capacity shall be provided to treat the wastewater generated from the airport. Treated water (128 KLD) shall be reused for flushing, gardening and dust suppression. As proposed the Airport will operate on zero liquid discharge principle.
- (viii) During construction and operational phase AAQ monitoring should include PM₁₀, PM_{2.5}, SO₂, NO_x, NH₃, CO, CH₄ and Benzene.
- (ix) 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.
- (x) Traffic Management Plan as submitted shall be implemented in letter and spirit. Apart, a detailed traffic management and traffic decongestion plan shall be drawn up to ensure that the current level of service of the roads within a 05 kms radius of the project is maintained and improved upon after the implementation of the project. This plan should be based on cumulative impact of all development and increased habitation being carried out or proposed to be carried out by the project or other agencies in this 05 Kms radius of the site in different scenarios of space and time. Traffic management

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plan shall be duly validated and certified by the State Urban Development department and the P.W.D./ competent authority for road augmentation and shall also have their consent to the implementation of components of the plan which involve the participation of these departments.

- (xi) 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.
- (xii) No tree cutting/transplantation of existing trees has been proposed in the instant project. 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. Adequate area shall be provided for green belt development and landscaping.
- (xiii) 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.
- (xiv) The company shall draw up and implement a corporate social Responsibility plan as per the Company's Act of 2013.
- (xv) 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 0.92 Crore (@1% of project Cost) shall be earmarked under Corporate Environment Responsibility (CER) for the activities such as bore wells and hand pumps in surrounding villages for facilitating drinking water supply, support to local government, schools w.r.t. sanitation and health, construction of public toilets in the surrounding villages, strengthening of village roads, sanitation and health awareness programme, medical camps and Installation of street lights in nearby villages as per requirement. 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.

B. STANDARD CONDITIONS:

I. Statutory compliance:

- i. The project proponent shall obtain the necessary permission from the Central Ground Water Authority, in case of drawl of ground water / from the competent authority concerned in case of drawl of surface water required for the project.
- ii. A certificate of adequacy of available power from the agency supplying power to the project along with the load allowed for the project should be obtained.
- iii. All other statutory clearances such as the approvals for storage of diesel from Chief Controller of Explosives, Fire Department, Civil Aviation Department shall be obtained, as applicable by project proponents from the respective competent authorities.

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- II. Air quality monitoring and preservation:**
- i. During construction and operational phase AAQ monitoring should include PM₁₀, PM_{2.5}, SO₂, NO_x, NH₃, CO, CH₄ and Benzene.
 - ii. The project proponent shall install system to carryout Ambient Air Quality monitoring for common/criterion parameters relevant to the main pollutants released (e.g. PM₁₀ and PM_{2.5} in reference to PM emission, and SO₂ and NO_x in reference to SO₂ and NO_x emissions) within and outside the airport area at least at four locations (one within and three outside the plant area at an angle of 120° each), covering upwind and downwind directions.
 - iii. Traffic Management Plan as submitted shall be implemented in letter and spirit. Apart, a detailed traffic management and traffic decongestion plan shall be drawn up to ensure that the current level of service of the roads within a 05 kms radius of the project is maintained and improved upon after the implementation of the project. This plan should be based on cumulative impact of all development and increased habitation being carried out or proposed to be carried out by the project or other agencies in this 05 Kms radius of the site in different scenarios of space and time and the traffic management plan shall be duly validated and certified by the State Urban Development department and the P.W.D./ competent authority for road augmentation and shall also have their consent to the implementation of components of the plan which involve the participation of these departments.
 - iv. 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.
 - v. The excavation working area should be sprayed with water after operation so as to maintain the entire surface wet.
 - vi. Excavated materials shall be handled and transported in a manner that they do not cause any problems of air pollution.
 - vii. 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.

III. Water quality monitoring and preservation:

- i. 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.
- ii. Run off from chemicals and other contaminants from aircraft maintenance and other areas within the airport shall be suitably contained and treated before disposal. A spillage and contaminant containment plan shall be drawn up and implemented to the satisfaction of the State Pollution Control Board.
- iii. Proper drainage systems, emergency containment in the event of a major spill during monsoon season etc. shall be provided.
- iv. 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.

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- v. Storm water drains are to be built for discharging storm water from the air-field to avoid flooding/water logging in project area. Domestic and industrial waste water shall not be allowed to be discharged into storm water drains.
- vi. Rain water harvesting for roof run-off and surface run-off, as plan submitted should be implemented. Rain water harvesting structures shall conform to CGWA designs. Before recharging the surface run off, pre-treatment must be done to remove suspended matter, oil and grease.
- vii. Total fresh water use shall not exceed the proposed requirement as provided in the project details. Prior permission from competent authority shall be obtained for use of fresh water.
- viii. A certificate from the competent authority for discharging treated effluent/untreated effluents into the Public sewer/ disposal/drainage systems along with the final disposal point should be obtained.
- ix. A detailed drainage plan for rain water shall be drawn up and implemented.
- x. No ground water shall be extracted without prior permission from CGWA.
- xi. 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.

IV. Noise monitoring and prevention:

- i. Noise level survey shall be carried as per the prescribed guidelines and report in this regard shall be submitted to Regional Officer of the Ministry as a part of six-monthly compliance report.
- ii. 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 equipments.
- iii. 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.
- iv. 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.
- v. Where construction activity is likely to cause noise nuisance to nearby residents, restrict operation hours between 7 am to 6 pm.

V. Energy Conservation measures:

- i. Energy conservation measures like installation of LED for the lighting the areas outside the building should be integral part of the project design and should be in place before project commissioning.

VI. Waste management:

- ii. Notification GSR 94(E) dated 25.01.2018 of MoEF&CC regarding Mandatory

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Implementation of Dust Mitigation Measures for Construction and Demolition Activities shall be complied with.

- iii. 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).
- iv. The project activity shall conform to the Fly Ash notification issued under the E.P. Act of 1986.
- v. Solid inert waste found on construction sites consists of building rubble, demolition material, concrete; bricks, timber, plastic, glass, metals, bitumen etc shall be reused/recycled or disposed off as per Solid Waste Management Rules, 2016 and Construction and Demolition Waste Rules, 2016.
- vi. Any wastes from construction and demolition activities related thereto shall be managed so as to strictly conform to the Construction and Demolition Rules, 2016.
- vii. The project proponents shall implement a management plan duly approved by the State Pollution Control Board and obtain its permissions for the safe handling and disposal of:
 - a. Trash collected in flight and disposed at the airport including segregation, collection and disposed.
 - b. Toilet wastes and sewage collected from aircrafts and disposed at the Airport.
 - c. Wastes arising out of maintenance and workshops
 - d. Wastes arising out of eateries and shops situated inside the airport complex.
 - e. Hazardous and other wastes
- viii. 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. Solid wastes shall be disposed in accordance to the Solid Waste Management Rules, 2016 as amended.
- ix. A certificate from the competent authority handling municipal solid wastes should be obtained, indicating the existing civic capacities of handling and their adequacy to cater to the M.S.W. generated from project.
- x. 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.

VII. Green Belt:

- I. Green belt shall be developed in area as provided in project details, with native tree species in accordance with Forest Department. The greenbelt shall inter alia cover the entire periphery of the Air Port.
- II. Top soil shall be separately stored and used in the development of green belt.

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III. Public hearing and Human health issues:

- i. Construction site should be adequately barricaded before the construction begins.
- ii. 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.
- iii. Provision of Electro-mechanical doors for toilets meant for disabled passengers. Children nursing/feeding room to be located conveniently near arrival and departure gates.
- iv. Emergency preparedness plan based on the Hazard identification and Risk Assessment (HIRA) and Disaster Management Plan shall be implemented.
- v. 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.
- vi. 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.
- vii. Occupational health surveillance of the workers shall be done on a regular basis.

IV. Corporate Environment Responsibility:

- i. The company shall have a well laid down environmental policy duly approved by the Board of Directors. The environmental policy should prescribe for standard operating procedures to have proper checks and balances and to bring into focus any infringements/deviation/violation of the environmental / forest /wildlife norms/ conditions. The company shall have defined system of reporting infringements / deviation / violation of the environmental / forest / wildlife norms / conditions and / or shareholders / stake holders. The copy of the board resolution in this regard shall be submitted to the MoEF&CC as a part of six-monthly report.
- ii. A separate Environmental Cell both at the project and company head quarter level, with qualified personnel shall be set up under the control of senior Executive, who will directly report to the head of the organization.
- iii. Action plan for implementing EMP and environmental conditions along with responsibility matrix of the company shall be prepared and shall be duly approved by competent authority. The year wise funds earmarked for environmental protection measures shall be kept in separate account and not to be diverted for any other purpose. Year wise progress of implementation of action plan shall be reported to the Ministry/Regional Office along with the Six Monthly Compliance Report.
- iv. Self environmental audit shall be conducted annually. Every three years third party environmental audit shall be carried out.

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V. Miscellaneous:

- i. The project proponent shall make public the environmental clearance granted for their project along with the environmental conditions and safeguards at their cost by prominently advertising it at least in two local newspapers of the District or State, of which one shall be in the vernacular language within seven days and in addition this shall also be displayed in the project proponent's website permanently.
- ii. The copies of the environmental clearance shall be submitted by the project proponents to the Heads of local bodies, Panchayats and Municipal Bodies in addition to the relevant offices of the Government who in turn has to display the same for 30 days from the date of receipt.
- iii. The project proponent shall upload the status of compliance of the stipulated environment clearance conditions, including results of monitored data on their website and update the same on half-yearly basis.
- iv. The project proponent shall submit six-monthly reports on the status of the compliance of the stipulated environmental conditions on the website of the ministry of Environment, Forest and Climate Change at environment clearance portal.
- v. The project proponent shall submit the environmental statement for each financial year in Form-V to the concerned State Pollution Control Board as prescribed under the Environment (Protection) Rules, 1986, as amended subsequently and put on the website of the company.
- vi. The criteria pollutant levels namely; PM₁₀, PM_{2.5}, SO₂, NO_x (ambient levels) shall be monitored and displayed at a convenient location near the main gate of the company in the public domain.
- vii. The project proponent shall inform the Regional Office as well as the Ministry, the date of financial closure and final approval of the project by the concerned authorities, commencing the land development work and start of production operation by the project.
- viii. The project authorities must strictly adhere to the stipulations made by the State Pollution Control Board and the State Government.
- ix. The project proponent shall abide by all the commitments and recommendations made in the EIA/EMP report, commitment made during Public Hearing and also that during their presentation to the Expert Appraisal Committee.
- x. No further expansion or modifications in the plant shall be carried out without prior approval of the Ministry of Environment, Forests and Climate Change (MoEF&CC).
- xi. Concealing factual data or submission of false/fabricated data may result in revocation of this environmental clearance and attract action under the provisions of Environment (Protection) Act, 1986.
- xii. The Ministry may revoke or suspend the clearance, if implementation of any of the above conditions is not satisfactory.

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- xiii. The Ministry reserves the right to stipulate additional conditions if found necessary. The Company in a time bound manner shall implement these conditions.
 - xiv. The Regional Office of this Ministry shall monitor compliance of the stipulated conditions. The project authorities should extend full cooperation to the officer (s) of the Regional Office by furnishing the requisite data / information/monitoring reports.
 - xv. The above conditions shall be enforced, inter-alia under the provisions of the Water (Prevention & Control of Pollution) Act, 1974, the Air (Prevention & Control of Pollution) Act, 1981, the Environment (Protection) Act, 1986, Hazardous and Other Wastes (Management and Transboundary Movement) Rules, 2016 and the Public Liability Insurance Act, 1991 along with their amendments and Rules and any other orders passed by the Hon'ble Supreme Court of India / High Courts/NGT and any other Court of Law relating to the subject matter.
 - xvi. Any appeal against this EC 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.
6. This issues with the approval of the Competent Authority.

J. Bose
(Dr. Subrata Bose)
Scientist F

Copy to:

- 1) The Commissioner/Secretary to the Government, Department of Ecology Environment & Remote Sensing J&K, SDA Colony Bemina, Srinagar Kashmir-190018.
- 2) The Chairman, Central Pollution Control Board, Parivesh Bhavan, CBD-cum-Office Complex, East Arjun Nagar, Delhi- 110032.
- 3) The Member Secretary, Jammu & Kashmir State Pollution Control Board, Sheikhul Alam Campus, Behind Government Silk Factory, Rajbagh Srinagar, J&K.
- 4) The Conservator of Forests(C), Ministry of Environment & Forests, Regional Office(NZ) Bays No. 24-25, Sector 31 A, Dakshin Marg, Chandigarh-160030.
- 5) Monitoring Cell, MoEF&CC, Indira Paryavaran Bhavan, New Delhi.
- 6) Guard File/ Record File/ Notice Board.
- 7) MoEFCC Website.

J. Bose
(Dr. Subrata Bose)
Scientist F

01.01 to March - 2020 = ✓
 April to Sept 2020 = Nil
 Oct 2020 to March 2021 = ✓
 April 2021 to Sept - 2021 =

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J&K Pollution Control Committee
Jammu/Kashmir (www.jkspcb.nic.in)

Consent Order

Consent No.:- PCC/digital/2204854748 of 2022

Date:- 11/05/2022

Consent To Establish/Operate (Fresh) under Section 25/26 of the Water(Prevention & Control Pollution)Act, 1974 and under section 21 of the Air (Prevention & Control of Pollution) Act, 1981, as amended is granted in favour of

Sh. Airports Authority of India
M/s Airports Authority of India
Civil Airport Jammu
Jammu South, Jammu(registered with DIC vide
registration No:
date: 12/02/2019)

for a period one year from the date of issue for RED category of unit as per revised classification of industrial sector, subject to the following terms and conditions in a time bound manner :

1. The consent granted by the Committee is restricted to Prevention and Control of Pollution only and shall not be treated as substitute of permission required under other laws of the land.
2. The consent is granted valid for operation of Air port as per DPR with capital investment of Rs.7524 lakhs(as per Schedule II):

Any change of Air port / enhancement in production capacity, process, raw materials etc shall have to be intimated to the Committee and the unit holder has to apply afresh for the same

3. **Compliance under Water Act :**

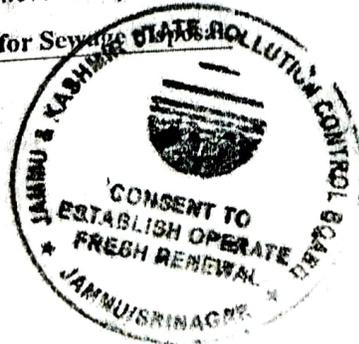
a) Trade Effluent: The unit holder has to install and maintain continuous operation of a comprehensive effluent treatment system, consisting of Primary / Secondary / Tertiary treatment so as to achieve the quality of the treated effluent to the following standards of discharge outlet

Standards of Discharge for Trade Effluent:

Compulsory Parameters	Conc. in mg/l except for pH
pH	6.5-8.5
Suspended Solids	100
BOD(3 days at 27 degree celsius)	30
Oil & Grease	10

b) Sewage Effluent - The unit holder has to install and maintain continuous operation of a comprehensive treatment system as is warranted with reference to effluent quality and operate and maintain the same continuously so as to achieve the quality to treated effluent to the following standards before disposal :-

Standards of discharge for Sewage Effluent:



Parameters	Range	Conc. in mg/l except for pH
pH	between	6-9
Suspended Solids	Not to exceed	100
BOD(3 days at 27 degree celsius)	not to exceed	30

c) Water consumption & Disposal

- i. The daily quantity of water consumption shall not exceed 80 KLD.
- ii. The daily quantity of sewage effluent from the unit shall not exceed 65 KLD
- iii. Waste water generated from the unit shall be disposed through STP

4. Compliance under Air Act :

a. The unit holder shall comply to National Ambient Air Quality Standards as per EP Act 1986 (refer rule 3(3B)).

b. The unit holder has to operate stack(s) of the following specifications :

S. No	Stack attached to	Volume Nm ³ /hr	Height (in Meters)	Top diameter (in Meters)	Velocity of gas emission m/sec
1	DG Set 750 KVA	750	8	Round	8
2	DG Set 750 KVA	750	8	Round	9

c. The unit holder has to install and maintain continuous operation of a comprehensive air pollution control system including the following pollution control devices to achieve the quality of emissions within the tolerance limits as prescribed under the environment protection act 1986:

S.No.	Pollution Control Equipments
1	
2	

d. Fuel Consumption Details :-

S.No.	Type of fuel	Maximum Quantity	Unit
1	HSD	1	KVA
2	HSD	1	KVA

5. The unit holder shall comply to the Solid Waste Management Rules 2016 dated 8-4-2016

6. Under the Noise Pollution (Regulation and Control) Rules 2000, the unit holder shall take adequate measures for control of noise from its own sources within the premises so as to maintain ambient air quality standards in respect of noise to less than 75dB(A) during day time and 70 dB(A) during night time. Daytime is reckoned in between 6 am to 10 pm and night time is 10 pm to 6 am

7. The unit holder shall comply to the Plastic Waste Management Rules 2016 dated 18-3-2016

8. Self Monitoring Schedule :

The unit holder shall have to get the samples of emission/Effluents analysed from the laboratory of J&K PCC or laboratories approved by J&K PCC after every Six months to the check the efficacy of Pollution Control Devices (PCDs) installed in the unit.

9. The unit holder shall comply with the additional conditions as stipulated below:-

- i. The Consent is valid for the operate of unit only. The unit holder can only manufacture products, at the rate of production as mentioned in consent order. Any change in production caapcity, process, raw materials use etc, shall have to be intimated to the Board. For any enhancement of the above, fresh consent has to be obtained fom J & K Pollution Control Committee.



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- ii. The unit holder has to keep a record of the environmental data monitored regularly with regard to operation and maintenance of pollution control devices viz Air Pollution and Water Pollution Control to achieve the desired standards notified in EP Act.
- iii. Pollution Control Devices (ETP/ECD) as contemplated to achieve the quality of effluent emission within the tolerance limits prescribed, shall have to be operational during the course of production. The effluent/emission shall not contain constituents in excess of the tolerance limits as laid down by J & K Pollution Control Committee.
- iv. The unit holder shall be liable to pay compensation in case any damage is caused to the environment.
- v. The unit holder shall abide by the directions of the Committee which will be issued from time to time. Any infringement/ violation or transgression of the statutory enactments of pollution control acts by the unit, shall be sufficient cause to prosecute the violator in conformity with relevant section of Air/Water Acts and Environment Protection Act in force.
- vi. The unit shall be under surveillance monitoring of J & K Pollution Control Committee
- vii. The unit holder shall provide adequate arrangement for fighting the accidental leakages/dischage of any air pollutant/gas/liquid from the vessel, machinery etc. which are likely to cause fire hazard including environmental pollution.
- viii. The unit holder shall adhere to general standards terms and conditions of Water / Air Acts and compliance of environment standards as per environment protection act 1986
- ix. The unit holder should apply 60 days in advance for renewal of consent before expiry the date of this Consent Order

Specific Conditions:-

1. The Air port Authority (AIR) shall adhere to general terms and conditions of Water / Air Act and compliance of environment standards as per EP Act 1986 and as amendments made thereof. The unit holder shall adopt all safeguards to protect the environment.
2. The D.O concerned shall submit the compliance of above conditions and check the log book for the operation of STP and APCD.
3. The unit holder shall maintain proper printed log book for STP.
4. The unit holder shall ensure that no damage to environment shall occur due to non-operation of APCDs.
5. Periodic Inspection by Divisional Officer, PCC as per schedule for Red category units.
6. The AIR has to display Board outside the unit for displaying Air / Water / Hazardous Waste data as per directions of Hon'ble Supreme Court of India.
7. The Air Authority of India may be asked to install a CAAQMS at Jammu Airport for creation of awareness among public regarding pollution parameters please.

x. In case of violation of above mentioned conditions or any public complaint the consent shall be withdraw.

* This consent is issued purely from environmental angle and the Committee shall not be responsible for any claim, counter claim, ownership, partnership etc of the unit.

J.N. Sharma
 (J.N.Sharma)
 Environmental Engineer



Member Secretary
 Member Secretary

Copy to the :

1. Regional Director PCC Jammu for information and ensure the implementation of conditions as above.
2. General Manager DIC Jammu for information.
3. D.O PCC Jammu South for the direction to monitor the conditions of the consent stated above.
4. P.A. to Chairman, J&K PCC for information of the Chairman
5. M/s Airports Authority of India, Civil Airport Jammu for compliance of above said conditions.
6. Office file

HALF YEARLY COMPLIANCE REPORT AS ON APRIL 2023 TO SEPTEMBER 2023

Name of the Project: - Extension of Runway 36 (towards 18 side) by 1300 ft. and allied works at Civil Airport, Jammu.

Project Proponent: Airports Authority of India

Date of Start of Project: - 01.07.2018

Date of Completion: - 05.10.2021.

S NO	DESCRIPTION	STATUS
A. SPECIFIC CONDITIONS:		
(i)	The land acquisition/ purchase shall be conformity to the LARR Act, 2013 and any other laws and regulations governing land acquisition.	Not applicable as no land acquisition has to be done. Total land area is 57.05 acre, out of which 17.05 acres of land belongs to army for which working permission granted and rest 40 acres of land already in possession of AAI.
(ii)	Clearance from Directorate General of Civil Aviation (DGCA) and Airports Authority of India (AAI) for safety and project facilities shall be obtained.	Construction of the Airport and true structures are Governed by the stipulated rules of Director General of Civil Aviation under Ministry of Civil Aviation, Govt. of. India and accordingly compiled.
(iii)	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.	1. Consent to Operate obtained vide order no: PCC/Digital/2204854748 of 2022; date: 11.05.2022. 2. Renewal of Consent to Operate is applied for next three years and it is in process.
(iv)	Notification GSR 94(E) dated 25.01.2018 of MoEF & CC Regarding Mandatory implementation of Dust Mitigation Measures for Construction and Demolition. Activities shall be complied with.	Complied. As the work was closed on 05.10.2021 and during construction adequate precautions were taken for complying the condition like watering of unpaved roads etc. to avoid blow of dust.
(v)	Water requirement for the existing Airport is 193 KLD. Only 50 KLD water will be required during construction phase, no increase in water consumption for other operational activities due to Runway extension. Out of 193 KID, about 30% is provided by Jammu Municipal Corporation (JMC) and the balance water requirement is met through two tube wells of AAI existing within the airport. No another water shall be extracted without prior permission from CGWA.	Noted and Complying with. No another water will be extracted without permission from CGWA other than the 193 KLD , some supply was obtained from IAF.

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(vi)	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.	Not applicable as no Hanger is at the site for maintenance of the Aircraft.
(vii)	Sewage Treatment Plant of 200 KLD capacity shall be provided to treat wastewater generated from the airport. Treated water (128 KW) shall be reused for flushing, gardening and dust suppression. As proposed the Airport will operate on zero liquid discharge principle.	Complying with. Airport has 200KLD capacity of STP installed which is used for treatment of waste water and after treatment the water used for green belt development.
(viii)	During construction and operational phase AAQ monitoring should include PM10, PM2.5, SOP, NOx, CO, CH and Benzene.	Complied
(ix)	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.	Complied. Noise level is maintained well within the norms and it is being ensure to keep the noise level within the norms and regular noise monitoring is being done to comply with the prescribed standards. Adequate mitigation measures have been implemented to ensure the noise levels well within the prescribed norms. Latest Noise monitoring reports are enclosed. (Annexure -1)
(x)	Traffic Management Plan as submitted shall be implemented in letter. And spirit. Apart, a detailed traffic management and traffic decongestion plan shall be drawn up to ensure that the current level of service of the roads within a 05 kms radius of the project is maintained and improved upon after the implementation of the project. This plan should be based on cumulative impact of all development and increased habitation being carried out or proposed to be carried out by the project or other agencies in this 05 Kms radius of the site in different scenarios of space and time. Traffic management.	Complied and as the said project had been completed on 05.10.2021
xi	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 district.	Complied:

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xii	No tree cutting/ transplantation of existing trees has been proposed in the instant project. The landscape planning should include plantation of the 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. Adequate area shall be provided for green belt development and Landscape.	Complied
xiii	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.	Corporate social responsibility plan has been developed and Rs. 12.00 lakhs were handed over to the District authorities to re-establish the household of 08 nos. under privileged families. More over during the period of this project AAI was in loss due to COVID-19, hence only 12.00 lakhs amount was spent in CSR.
xiv	The company shall draw up and implement a corporate social Responsibility plan as per the Company's Act of 2013.	Complied. (Annexure-2)
xv	As per the Ministry's Office Memorandum F.No, 22-65/2017-IA.III dated 1 st May,2018, and proposed by the project proponent an amount of 0.92 Crore (@1% of project Cost) shall be earmarked under Corporate Environment Responsibility (CER) for the activities such as bore wells and hand pumps in surrounding villages for facilitating drinking water supply, support to local government, schools w.r.t sanitation and health, construction of public toilets in the surrounding villages, strengthening of the village roads, sanitation and health awareness programme, medical camps and installation of street lights in nearby villages as per requirement. The activities proposed under CER shall be restricted to be affected area around the project. The entire activities proposed under the CER shall be treated as	The District Deputy Commissioner, Jammu had proposed plans under corporate Enviromental Responsibility amounting to Rs 51.00 lakhs for the excecution toilets, sanitary vending machine & Incinerator, and borewell in school etc. The above CER works are being taken up on priority. (Annexure -3)

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	project and shall be monitored, The monitoring report shall be submitted to the regional office as a part of the half yearly compliance report, and to the District Collector. It should be posted on the website of the project proponent.	
	B. STANDARD CONDITIONS:	
I	Statutory Compliance	
i	The project proponent shall obtain the necessary permission from the Central Ground water Authority, in the case of drawl of ground water/from the competent authority concerned in case of drawl of surface water required for the project.	Ground water was not withdrawn during construction phase and some supply was obtained from IAF.
ii	A certificate of adequacy of available power from the agency supplying power to the project along with the load allowed for the project should be obtained.	No Power supply was needed.
iii	All other statutory clearances such as the approvals for storage of diesel from Chief Controller of Explosives, Fire Department, Civil aviation Department shall be obtained, as applicable by project proponents from the respective competent authorities.	Complied
II.	Air quality monitoring and preservation:	
i.	During construction and operational phase AAQ monitoring should include PM10 PM2.5, SO2, NOX, NH2, CO, CH, and Benzene.	Complied
ii.	The project proponent shall install system to carryout Ambient Air Quality monitoring for common/criterion parameters relevant to the main pollutants released (eg. PM10 and PM2.5 in reference to PM emission, and SO, and NOx in reference to SO, and NOx emissions) within and outside the airport area at least at four locations (one within and three outside the plant area at an angle of 120 each), covering upwind and downwind directions.	As there is no buffer zone confirmed from State Pollution Board for the Jammu Airport. But we have installed two no's of Ambient air Quality monitoring station, one inside existing Airport and second in the buffer zone. (Annexure -4)
(iii)	Traffic. Management Plan as submitted shall be implemented in letter and spirit Apart, a detailed	Complied. and as the said project had been completed on 05.10.2021

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	<p>traffic management and traffic decongestion plan shall be drawn up to ensure that the current level of service of the roads within a 05 kms radius of the project is maintained and improved upon after the implementation of the project. This plan should be based on cumulative impact of all development and increased habitation being carried out or proposed to be carried out by the project or other agencies in this 05 kms radius of the site in different scenarios of space and time and the traffic management plan shall be duly validated and certified by the State Urban Development department and the P.W.D./ competent authority for road augmentation and shall also have their consent to the implementation of components of the plan which involve the participation of these departments.</p>	
(iv)	<p>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.</p>	<p>Complied Soil and other construction materials were being sprayed with water prior to any loading, unloading or transfer operation so as to maintain the dusty material wet.</p>
(v)	<p>The excavation working area should be sprayed with water after operation so as to maintain the entire surface wet</p>	<p>Complied The excavation working area was sprayed with water after operation so as to maintain the entire surface wet</p>
(vi)	<p>Excavated materials shall be handled and transported in a manner that they do not cause any problems of air pollution.</p>	<p>Complying with Excavated materials are being handled and transported in a manner that they do not cause any problems of air pollution.</p>
(vii)	<p>The soil/construction materials carried by the vehicle should be covered by impervious sheeting to ensure that the dusty materials do not leak from the vehicle</p>	<p>Complied The soil/construction materials carried by the vehicle were covered by impervious sheeting to ensure that spillage should not take place.</p>
<p>III. Water quality monitoring and preservation:</p>		
i.	<p>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.</p>	<p>Not applicable as no Hanger is at the site for maintenance of the Aircraft.</p>
ii.	<p>Run off from chemicals and other contaminants from aircraft maintenance and other areas</p>	<p>Not applicable as no Hanger is at the site for maintenance of the Aircraft.</p>

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	within the airport I shall be suitably contained and treated before disposal. A spillage and containment plan shall be drawn up and implemented to the satisfaction of the State Pollution Control Board	
iii.	Proper drainage systems, emergency containment in the event of a major spill during monsoon season etc. shall be provided.	Complied Proper Drainage system, emergency containment in the event of a major spill during monsoon season is provided.
iv.	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	Shall be Complying with. The runoff from paved structures like Runways. Taxiways, will be routed through drains to oil separation tanks and sedimentation basins before being discharged into rainwater harvesting structures
v.	Storm water drains are to be built for discharging storm water from the air-field to avoid flooding/water logging in project area Domestic and industrial waste water shall not be allowed to be discharged into storm water drains.	Complied
vi.	Rain water harvesting for roof run-off and surface run-off, as plan submitted should be implemented. Rain water harvesting structures shall conform to CGWA designs Before recharging the surface run off, pre-treatment must be done to remove suspended matter, oil and grease.	Complied 02Nos rain water harvesting pits have been provided near Terminal building. Rain water collected from roof top and the runoff from internal drains is diverted to these pits.
vii.	Total fresh water use shall not exceed the proposed Requirement as provided in the project details. Prior permission from competent authority shall be obtained for use of fresh water	Agreed Upon
viii.	A certificate from the competent authority for discharging treated effluent/ untreated effluents into the Public sewer/ disposal/drainage systems along with the final disposal point should be obtained.	Not applicable. Airport has 200KLD capacity of STP is installed which is used to treat the waste water and after treatment the water used for green belt development.
ix.	A detailed drainage plan for rain water shall be drawn up and implemented	Complied
x.	A water security plan to the satisfaction of the CGWA shall be drawn up to include augmenting water supply and sanitation facilities and	Corporate social responsibility plan has been developed and Rs. 12.00 lakhs were handed over to the District authorities to re-establish the household of 08 nos. under privileged families.

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	recharge of ground water in at least two villages and schools, as part of the C.S.R. activities	Moreover during the period of this project AAI was in loss due to COVID-19 so these works were not taken up, only 12.00lakhs amount had been spent
	IV. Noise monitoring and prevention:	
i.	Noise level survey shall be carried as per the prescribed guidelines and report in this regard shall be submitted to Regional Officer of the Ministry as a part of six-monthly compliance report	Agreed Upon. Noise level survey is being carried as per the prescribed guidelines and the latest monitoring reports are enclosed. (Annexure -1)
ii.	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.	Complying with Regular maintenance of vehicles and power machinery are being done and Acoustic enclosures has been provided too to kept the noise levels well within the prescribed limit.
iii.	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	Complied Regular maintenance of power machinery is being done and acoustic enclosures has been provided wherever necessary to keep the noise level well within the prescribed norms. Besides this appropriate PPE's has been provided to the operating personnel.
iv.	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.	Complying with Noise level is maintained well within the norms and it is being ensure to keep the noise level within the norms and regular noise monitoring is being done to comply with the prescribed standards. Adequate mitigation measures have been implemented to ensure the noise levels well within the prescribed norms. Latest Noise monitoring reports are enclosed.
v.	Where construction activity is likely to cause noise nuisance to nearby residents, restrict operation hour between 7 am to 6 pm.	Construction work was carried out during 10AM to 6PM only.
	V. Energy Conservation Measures	
i.	Energy conservation measures like installation of LED for the lighting the areas outside the building should be integral part of the project design and should be in place before project commissioning.	Complied Double skin standing seam insulating system, double glass walls, LED lightings, building automation for Air Conditioning etc., already provided to reduce the energy consumption considerably. Further augmentation 300KVA

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		capacity Roof top Solar Plant is going to be installed which will enhance the energy conservation.
	VI. Waste management:	
ii.	Notification GSR 94(E) dated 25.01.2018 of MoEF&CC regarding Mandatory implementation of Dust Mitigation Measures for Construction and Demolition Activities shall be complied with.	Complied During construction adequate precautions were taken for complying the condition like watering of unpaved roads etc. to avoid blow of dust.
iii.	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).	Complied
iv.	The project activity shall conform to the Fly Ash notification issued under the EP. Act of 1986	During the construction the rules of Fly Ash notification issued under the EP. Act of 1986 were followed
v.	Solid inert waste found on construction sites consists of building rubble, demolition material, concrete; bricks, timber, plastic. Glass, metals, bitumen etc shall be reused/recycled or disposed of as per Solid Waste Management Rules, 2016 and Construction and Demolition Waste Rules, 2016.	Complied No demolished material was disposed outside the project during the construction phase and it was used for levelling within the airport and followed the Solid Waste Management Rules, 2016 and Construction and Demolition Waste Rules, 2016.
vi.	Any wastes from construction and demolition activities related thereto shall be managed so as to strictly conform to the Construction and Demolition Rules, 2016.	Complied
vii.	The project proponents shall implement a management plan duly approved by the State Pollution Control Board and obtain its permissions for the safe handling and disposal of	Complied
a.	Trash collected in flight and disposed at the airport Including segregation, collection and disposed.	Trash generated from flight is being collected and segregated and disposed as per the MSW rules, 2016 and subsequent amendments.
b.	Toilet wastes and sewage collected from aircrafts and Disposed at the Airport.	Complied
c.	Wastes arising out of maintenance and workshops	Not applicable as no Hanger is at the site for maintenance of the Aircraft.
d.	Wastes arising out of eateries and shops situated inside the airport complex.	Complied Biodegradable waste is composted and used for the Gardening purpose.

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e.	Hazardous and other wastes.	Complied Hazardous waste generated in complex have been stored in secured place with adequate labelling as per rules. Appropriate records of hazardous generation and disposal have been maintained.
viii.	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. Solid wastes shall be disposed in accordance to the Solid Waste Management Rules, 2016 as amended.	Complied Solid wastes are being disposed in accordance to the Solid Waste Management Rules, 2016 as amended.
ix.	A certificate from the competent authority handling municipal solid wastes should be obtained indicating the existing civic capacities of handling and their adequacy to cater to the M.S.W. generated from project	Complied
x.	Used CFLs and TFLs should be properly collected and Disposed of/sent for recycling as per the prevailing guidelines/ rules of the regulatory authority to avoid mercury contamination.	Complied
VII. Green Belt:		
i.	Green belt shall be developed in area as provided in project details, with native tree species in accordance with Forest Department. The greenbelt shall Inter alia cover the entire periphery of the Airport	Complied The initiative for plantation of trees in consultation with Urban Forestry Division, MoEF & CC, Jammu, and State PCB, Jammu at different locations had already taken up. Out of 5000 no of trees 1000 no of trees will be planted in this season and rest will be planted in next seasons
ii.	Top soil shall be separately stored and used in the development of green belt.	Complied. The topsoil has been utilized for development of Greenbelt.
III. Public hearing and Human health issues:		
i.	Construction site should be adequately barricaded before the construction begins.	Complied

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ii.	Traffic congestion near the entry and exit points from the ads adjoining the airport shall be avoided. Parking should be fully internalized and no public space should be utilized.	Complied
iii.	Provision of Electro-mechanical doors for toilets meant for disabled passengers. Children nursing/feeding room to be located conveniently near arrival and departure gates.	Complied
iv.	Emergency preparedness plan based on the Hazard identification and Risk Assessment (HIRA) and Disaster Management Plan shall be implemented.	Complied
v.	Provision shall be made for the housing of construction labor 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	Complied Provided with necessary infrastructure and facilities during the construction phase.
vi.	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	Complied
vii.	Occupational health surveillance of the workers shall be done on a regular basis	Complied
IV. Corporate Environment Responsibility:		
i.	The company shall have a well laid down environmental Policy duly approved by the Board of Directors. The environmental policy should prescribe for standard operating procedures to have proper checks and balances and to bring into focus any infringements/ deviation/ violation of the environmental / forest /wildlife norms/ conditions. The company shall have defined system of reporting infringements / deviation / violation of the environmental / forest/ wildlife norms/ conditions and/ or shareholders / stake holders The copy of the board resolution in this regard	Complying with.

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	shall be submitted to the MoEF & CC as a part of six-monthly report.	
ii.	A separate Environmental Cell both at the project and company head quarter level, with qualified personnel shall be set up under the control of senior Executive, who will directly report to the head of the organization	Complied
iii.	Action plan for implementing EMP and environmental conditions along with responsibility matrix of the company shall be prepared and shall be duly approved by competent authority. The year wise funds earmarked for environmental protection measures shall be kept in separate account and not to be diverted for any other purpose. Year wise progress of implementation of action plan shall be reported to the Ministry/Regional Office along with the Six-Monthly Compliance Report.	Agreed to comply.
iv.	Self-environmental audit shall be conducted annually. Every three years third party environmental audit shall be carried out.	Complied. Third Party audit had been carried out. (Annexure -5)
X	Miscellaneous	
i	The project proponent shall inform the Regional Office as well as the Ministry, the date of financial closure and final approval of the project by the concerned authorities, commencing the land development work and start of production operation by the project.	Complied. (Annexure-6)
ii	The copies of the environmental clearance shall be submitted by the project proponents to the Heads of local bodies, Panchayat and Municipal Bodies in addition to the relevant offices of the Government who in turn has to display the same for 30 days from the date of receipt	Complied
iii	The project proponent shall upload the status of compliance of the stipulated environment clearance conditions, including results of monitored data on their website and update the same on half-yearly basis.	Complied.
iv	The project proponent shall submit six monthly reports on the status of the compliance of the	Complied

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	stipulated environmental conditions on the website of the ministry of Environment, Forest and Climate Change at environment clearance portal.	
v	The project proponent shall submit the environmental statement for each financial year in Form-V to the concerned State Pollution Control Board as prescribed under the Environment (Protection) Rules, 1986, as amended subsequently and put on the website of the company.	Complied
vi	The criteria pollutant levels namely; PM10, PM2.5, SO2, NOx (ambient levels) shall be monitored and displayed at a convenient location near the main gate of the company in the public domain.	Complied
vii	The project proponent shall inform the Regional Office as well as the Ministry, the date of financial closure and final approval of the project by the concerned authorities, commencing the land development work and start of production operation by the project.	Work was physically completed on 05/10/2021, the final bill was paid on 29/03/2022, and the facility was commissioned on 18/05/2022.
viii	The project authorities must strictly adhere to the stipulations made by the State Pollution Control Board and the State Government.	Agreed
ix	The project proponent shall abide by all the communities and recommendations made in the EIA/EMP report, commitment made during Public Hearing and also that during their presentation to the expert Appraisal Committee.	Agreed
x	No further expansion or modifications in the plant shall be carried out without prior approval of the Ministry of Environment, Forests and Climate Change (MoEF&CC).	Agreed
xi	Concealing factual data or submission of false/fabricated data may result in revocation of this environmental clearance and attract action under the provisions of Environment (Protection) Act, 1986.	Agreed

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xii	The Ministry may revoke or suspend clearance, if implementation of any of the above conditions are not satisfactory.	Agreed
xiii	The Ministry reserves the right to stipulate additional conditions if found necessary. The Company in a time bound manner shall implement these conditions.	Agreed
xiv	The Regional Office of this Ministry shall monitor compliance of the stipulated conditions. The project authorities should extend full cooperation to the officer (s) of the Regional Office by furnishing the requisite data/information/monitoring reports.	Agreed
xv	The above conditions shall be enforced, inter-alia under the provisions of the Water (Prevention & Control of Pollution) Act, 1981, the Environment (Protection) Act, 1986, Hazardous and Other Wastes (Management and Trans boundary Movement) Rules, 2016 and the Public Liability Insurance Act, 1991 along with their amendments and Rules and any other orders passed by the Hon'ble Supreme Court of India / High Courts/NGT and any other Court of Law relating to the subject matter.	Agreed
xvi	Any appeal against this EC 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.	Agreed

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Vardan EnviroLab

Laboratory: Plot No. 82A, Sector - 5, IMT Manesar, Gurugram - 122051 (Haryana)
ISO 9001 | ISO 14001 | ISO 45001

Test Report

Sample No.:	VEL/ AAI /AA/01	Report No.:	VEL/A3/2310060001
Name & Address of Project	M/s Airport Authority of India Civil Airport , Jammu (J&K)	Reporting Date:	10/10/2023
		Ref. No:	NIL
		Monitoring Period:	06/10/2023
		Equipment Used:	RDS & FPS with all accessories
Sample Collected By:	Vardan EnviroLab Team	Protocol Used:	CPCB Guidelines/IS-5182
Sample Description:	Ambient Air Quality Monitoring	Parameter Required	As Per Requirement
Location:	Project site		

Test Result

Date	PM ₁₀ (µg/m ³)	PM _{2.5} (µg/m ³)	SO ₂ (µg/m ³)	NO ₂ (µg/m ³)	CO (mg/m ³)	Benzene (ug/m ³)	NH ₃ (µg/m ³)	CH ₄ (ug/m ³)
06.10.2023	59.6	35.5	17.3	15.1	0.34	*BLQ	*BLQ	*BLQ

*** End of Report***

(Checked By)



(Approved By)



FORM – V

(See Rule- 14)

Environmental Statement for the Financial Year Ending the 31st March 2023

(I.e. Environmental Audit Report)

Part-A

1. Name and address of owner/occupier of the	: Mr S.K. Garg Airport Director Civil Airport, Jammu, J&K
2. Industry category: Primary- (STC code) Secondary- (SIC Code)	: Airport Civil Enclave
3. Production capacity: Units	: Not Applicable
4. Year of establishment	: 1985
5. Date of last environmental statement submitted	: -----

Part-B

Water and Raw Material Consumption

(i) Water consumption m³/d:

Process : Not Applicable

Cooling : Not applicable (Recycled Water is used)

Domestic : 193 KL/Day

S.No.	Name of raw Material	Name of Products	Consumption of raw material per unit output	
			During the previous financial year	During the current financial year
1.	Not Applicable	Not Applicable	Not Applicable	Not Applicable

(ii) Raw Material Consumption:

S.No.	Name of Products	Process water consumption per unit of product output	
		During the previous financial year	During the current financial year
1.	Not Applicable	Not Applicable	Not Applicable

*Industry may use if disclosing details of raw material would violate contractual obligations otherwise all industries have to name the raw material used.

Part-C

Pollution Discharged to Environment/ Unit of Output
(Parameters as specified in the consent issued)

	Pollutants	Quantity of pollutants discharged (mass/day)	Concentration of pollutants in discharges (mass/volume)	Percentage variation from prescribed standards with reasons
(a) Water	No pollutant is discharged into environment as the entire sewage is treated in STP of and this treated water is reused in flushing, Greenbelt development and HVAC.	Given Below	Given Below	Given Below
(b) Air				

Details of quality of STP effluent:

Test results of STP effluents by recognized laboratory are enclosed.

Details of stack emissions:

Test Results of stack emissions by recognized laboratory are enclosed.

Part-D

Hazardous Wastes

(As specified under Hazardous Wastes (Management and Handling) Rules, 1989)

	Hazardous Wastes	Total Quantity (ltr.)	
		During the previous financial year	During the current financial year
(a) From process	Used (waste) oil from D.G. Sets	300 ltr /year	300 ltr /year
	Used/scrap Batteries	45 Kg/ year	45 Kg/Year
(b) From pollution control facilities	Not Applicable		

Note: The spent oil from DG is sold to authorised waste recycle.

Batteries are disposed in buy back scheme through authorized vendors.

**Part-E
Solid Wastes**

		Total Quantity (kg)	
		During the previous financial year	During the current financial year
(a) . From process	Municipal Solid waste	520 Kg/day	585 kg/day
(b) From pollution control facilities	STP Sludge	1.2 kg/day	1.2 kg/day
(c) (1) Quantity recycled or re- utilizes within the unit	STP Sludge is used as Manure	1.2 kg/day	1.2 kg/day
(2) Sold	Batteries	2.25 TPA	2.25 TPA
(3)Disposed	Municipality Solid waste handed over to authorized recyclers	520 kg/day	585 kg/day

Part-F

Please specify the characterizations (in terms of composition of quantum) of hazardous as well as solid wastes and indicate disposal practice adopted for both these categories of wastes.

Solid wastes	Solid wastes are segregated into biodegradable wastes (waste vegetables, foods etc.) and recyclable / non-biodegradable wastes (Paper, plastic, glass etc.) and collected in separate bins. Both the wastes are collected/ disposed by Eco Green authorized by authorized recyclers/vendors.
Hazardous wastes	The spent oil from DG Sets is sold to authorized recycler and batteries to are sold in buy back scheme with authorized recyclers/vendors.

Part-G

Impact of the pollution abatement measures taken on conservation of natural resources and the cost of production.

Treated effluent from STP is recycled for use in Flushing, greenbelt development and HVAC.

Part-H

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

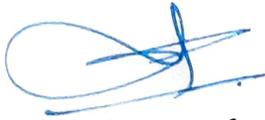
All measure for environmental protection and abatement/prevention of pollution has already been taken. Therefore no additional measures are envisaged.

Part-I

Any other particulars for improving the quality of the environment.

1. The entire sewerage is treated up to the tertiary level in STP.
2. The entire (100%) treated effluent from STP is recycled and reused in flushing, greenbelt development & HVAC.
3. Adequate stack height for DG Sets is provided as per norms to reduce air pollution.
4. DG Sets comply with the applicable emission norms.
5. Monitoring of stack emission from DG Sets is carried out as per norms.
6. DG Room is provided with acoustic lining/treatment for control of noise as per norms.
7. Tree plantation has been carried out for improvement of aesthetics and climate.
8. Rainwater harvesting pits & recharge bore-wells are provided for recharge of ground water.
9. Solid wastes are recycled through authorized vendors.

For: Airports Authority of India



**Name & Signature of
Authorized Signatory**

विमानपत्तन निदेशक
Airport Director
भारतीय विमानपत्तन प्राधिकरण
Airports Authority of India
सिविल विमानपत्तन, जम्मू
Civil Airport, Jammu



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TEST REPORT

Page No.: 1 of 1

TEST REPORT No. NCL/ED-053/19/09/23

DATE OF REPORT : 23/09/2023

Name and Address of Customer

M/S AGM (E) AAI JAMMU THROUGH
AIRPORT ROAD, SATWARI, JAMMU

SAMPLING DETAIL

Sample Name : STACK EMISSION
 Analysis Start Date : 19/09/2023
 Date of Sampling : 18/09/2023
 Sampling Protocol : AS PER CPCB GUIDELINE
 Sampling Location : --
 Equipments Used : Vayubodhan Stack Sampler No-1
 Analysis End Date : 23/09/2023
 Sampling Done By : NCL
 Duration of Sampling : 30 MIN
 Sample ID No. : NCL/ED-053/19/09/23
 Area Category : --
 VSS-1 (S.No-321 DTC 01)

DETAILS OF STACK

Stack Attached to : DG SET NO-1
 Type of fuel used : HSD
 Stack height above the ground level : 7 MTR
 Stack dia at the top : 304 MM
 Attached APCs : ACCOUSTIC ENCLOSURE
 D.G.set comminssioning date : --
 Capacity of D.G. : 750 KVA
 Quantity of fuel used : 70-80 LTR/HR
 Stack height above the roof top : --
 Material of Construction : MS
 Normal Oprating Schedule : AS PER REQUIREMENT

PHYSICAL OBSERVATIONS

Ambient Temperature : 32°C
 Velocity of the flue gases : 17.1 Mtr/Sec
 Sampling Flow Rate for Gases : 2.2 LPM
 Flue gas temprature : 205°C
 Sampling Flow Rate of SPM : 18.0 LPM
 Quantity of Emission discharged : 2784.22 Nm³/hr

TEST RESULT

S.No.	Test Parameters	Units	Method	Result	Specification/Limits (As Per CPCB)
1	Carbon Monoxide (CO)	g/kw-hr	IS:13270	1.8	<3.5
2	Particulate Matters (PM)	g/kw-hr	IS:11255 (Part-1)	0.11	<0.2
3	Oxides of Nitrogen + HC	g/kw-hr	IS:11255 (Part-7) GC Method	2.1	<4.0

End of Report

ED-053/19/09/23-1



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TEST REPORT

Page No.: 1 of 1

TEST REPORT No. NCL/ED-054/19/09/23		DATE OF REPORT : 23/09/2023
Name and Address of Customer	M/S AGM (E) AAI JAMMU THROUGH AIRPORT ROAD, SATWARI, JAMMU	

SAMPLING DETAIL

Sample Name : NOISE MONITORING
Analysis Start Date : 19/09/2023 Analysis End Date : 19/09/2023
Date of Sampling : 18/09/2023 Sampling Done By : NCL
Time of Sampling : 12:40 PM Equipments Used : SLM-4010
Sampling Location : DG SET NO-1 (750 KVA) Sample ID No. : NCL/ED-054/19/09/23
Sampling Protocol : IS:4758:1968 Sample Duration : 20 MIN
Ambient Temperature : 30°C Sampling Flow Rate : --

TEST RESULT

S.No.	Test Parameters	Units	Test Method	Results	Specification As Per CPCB
1	Average Noise Level (All Doors of Acoustic Enclosure Were Open)	dB(A)	IS: 4758- 1968 (R 2017)	100.1	Not Specified
2	Average Noise Level (All Doors of Acoustic Enclosure Were Closed)	dB(A)	IS: 4758- 1968 (R 2017)	74.2	75.0 Max
3	Insertion Loss	dB(A)	IS: 4758- 1968 (R 2017)	25.9	25.0 Min

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TEST REPORT

Page No.: 1 of 2

TEST REPORT No. NCL/ED-050/19/09/23

DATE OF REPORT : 23/09/2023

Name and Address of Customer

M/S AGM (E) AAI JAMMU THROUGH
AIRPORT ROAD, SATWARI, JAMMU

SAMPLING DETAIL

Sample Name : STACK EMISSION
Analysis Start Date : 19/09/2023
Date of Sampling : 18/09/2023
Sampling Protocol : AS PER CPCB GUIDELINE
Sampling Location : --
Equipments Used : Vayubodhan Stack Sampler No-1
VSS-1 (S.No-321 DTC 01)

Analysis End Date : 23/09/2023
Sampling Done By : NCL
Duration of Sampling : 30 MIN
Sample ID No. : NCL/ED-050/19/09/23
Area Category : --

DETAILS OF STACK

Stack Attached to : DG SET NO-2
Type of fuel used : HSD
Stack height above the ground level : 15 MTR
Stack dia at the top : 304 MM
Attached APCS : ACCOUSTIC ENCLOSURE
D.G.set commissioning date : --

Capacity of D.G. : 1010 KVA
Quantity of fuel used : 160-165 LTR/HR
Stack height above the roof top : --
Material of Construction : MS
Normal Oprating Schedule : AS PER REQUIREMENT

PHYSICAL OBSERVATIONS

Ambient Temperature : 32°C
Velocity of the flue gases : 18.2 Mtr/Sec
Sampling Flow Rate for Gases : 2.0 LPM

Flue gas temprature : 239°C
Sampling Flow Rate of SPM : 18.0 LPM
Quantity of Emission discharged : 2766.54 Nm³/hr

TEST RESULT

S.No.	Test Parameters	Units	Test Method	Results	Specification (Max)
1	Carbon Monoxide (CO) (at 15% O2)	Mg/Nm ³	IS:13270	58	150
2	Particulate Matters (PM) (at 15% Oxygen)	Mg/Nm ³	IS:11255 (P-1)	38	75
3	Oxides Of Nitrogen (at 15% Oxygen, Dry Basis) (NOx)	ppmv	IS:11255 (P-7)	280	710
4	NMHC (at 15% Oxygen)	mg/Nm ³	G.C. Method	13.2	100
5	Sulphur Dioxide (as SO2)	mg/Nm ³	IS:11255 (P-2)	52.1	Not Specified

ED-050/19/09/23-1



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TEST REPORT

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TEST REPORT No. NCL/ED-055/19/09/23

DATE OF REPORT : 23/09/2023

Name and Address of Customer

M/S AGM (E) AAI JAMMU THROUGH
AIRPORT ROAD, SATWARI, JAMMU

SAMPLING DETAIL

Sample Name : NOISE MONITORING
Analysis Start Date : 19/09/2023
Date of Sampling : 18/09/2023
Time of Sampling : 10:00 AM

Analysis End Date : 19/09/2023
Sampling Done By : NCL
Equipments Used : SLM-4010

Sampling Location : DG SET NO-2 (1010 KVA)
Sampling Protocol : IS:4758-1968
Ambient Temperature : 30°C

Sample ID No. : NCL/ED-055/19/09/23
Sample Duration : 20 MIN
Sampling Flow Rate : --

TEST RESULT

S.No.	Test Parameters	Units	Test Method	Results	Specification As Per CPCB
1	Average Noise Level (All Doors of Acoustic Enclosure Were Open)	dB(A)	IS: 4758- 1968 (R 2017)	99.8	Not Specified
2	Average Noise Level (All Doors of Acoustic Enclosure Were Closed)	dB(A)	IS: 4758- 1968 (R 2017)	73.7	75.0 Max
3	Insertion Loss	dB(A)	IS: 4758- 1968 (R 2017)	26.1	25.0 Min

End of Report

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TEST REPORT No. NCL/ED-052/19/09/23

DATE OF REPORT : 23/09/2023

Name and Address of Customer : M/S AGM (E) AAI JAMMU THROUGH
AIRPORT ROAD, SATWARI, JAMMU

SAMPLING DETAIL

Sample Name : STACK EMISSION
Analysis Start Date : 19/09/2023 Analysis End Date : 23/09/2023
Date of Sampling : 18/09/2023 Sampling Done By : NCL
Sampling Protocol : AS PER CPCB GUIDELINE Duration of Sampling : 30 MIN
Sample ID No. : NCL/ED-052/19/09/23
Sampling Location : --
Equipments Used : Vayubodhan Stack Sampler No-1 Area Category : --
VSS-1 (S.No-321 DTC 01)

DETAILS OF STACK

Stack Attached to : DG SET NO-3 Capacity of D.G. : 380 KVA
Type of fuel used : HSD Quantity of fuel used : 35-40 LTR/HR
Stack height above the ground level : 3.5 MTR Stack height above the roof top : --
Stack dia at the top : 101 MM Material of Construction : MS
Attached APCS : ACCOUSTIC ENCLOSURE Normal Oprating Schedule : AS PER REQUIREMENT
D.G.set comminssioning date : --

PHYSICAL OBSERVATIONS

Ambient Temperature : 32°C Flue gas temperature : 160°C
Velocity of the flue gases : 16.6 Mtr/Sec Sampling Flow Rate of SPM : 19.0 LPM
Sampling Flow Rate for Gases : 2.6 LPM Quantity of Emission discharged : 329.35 Nm³/hr

TEST RESULT

S.No.	Test Parameters	Units	Method	Result	Specification/Limits (As Per CPCB)
1	Carbon Monoxide (CO)	g/kw-hr	IS:13270	1.8	<3.5
2	Particulate Matters (PM)	g/kw-hr	IS:11255 (Part-1)	0.14	<0.2
3	Oxides of Nitrogen + HC	g/kw-hr	IS:11255 (Part-7) GC Method	2.4	<4.0

End of Report

ED-052/19/09/23-1

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TEST REPORT No. NCL/ED-056/19/09/23

DATE OF REPORT : 23/09/2023

Name and Address of Customer

M/S AGM (E) AAI JAMMU THROUGH
AIRPORT ROAD, SATWARI, JAMMU

SAMPLING DETAIL

Sample Name : NOISE MONITORING

Analysis Start Date : 19/09/2023

Date of Sampling : 18/09/2023

Time of Sampling : 01:20 PM

Analysis End Date : 19/09/2023

Sampling Done By : NCL

Equipments Used : SLM-4010

Sampling Location : DG SET NO-3 (380 KVA)

Sampling Protocol : IS:-4758-1968

Ambient Temperature : 30°C

Sample ID No. : NCL/ED-056/19/09/23

Sample Duration : 20 MIN

Sampling Flow Rate : --

TEST RESULT

S.No.	Test Parameters	Units	Test Method	Results	Specification As Per CPCB
1	Average Noise Level (All Doors of Acoustic Enclosure Were Open)	dB(A)	IS: 4758- 1968 (R 2017)	100.2	Not Specified
2	Average Noise Level (All Doors of Acoustic Enclosure Were Closed)	dB(A)	IS: 4758- 1968 (R 2017)	73.1	75.0 Max
3	Insertion Loss	dB(A)	IS: 4758- 1968 (R 2017)	27.1	25.0 Min

End of Report

ED-056/19/09/23-1



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Sonu

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TEST REPORT

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TEST REPORT No. NCL/ED-051/19/09/23

DATE OF REPORT : 23/09/2023

Name and Address of Customer : M/S AGM (E) AAI JAMMU THROUGH
AIRPORT ROAD, SATWARI, JAMMU

SAMPLING DETAIL

Sample Name : STACK EMISSION
Analysis Start Date : 19/09/2023
Date of Sampling : 18/09/2023
Sampling Protocol : AS PER CPCB GUIDELINE
Sampling Location : --
Equipments Used : Vayubodhan Stack Sampler No-1
VSS-1 (S.No-321 DTC 01)

Analysis End Date : 23/09/2023
Sampling Done By : NCL
Duration of Sampling : 30 MIN
Sample ID No. : NCL/ED-051/19/09/23
Area Category : --

DETAILS OF STACK

Stack Attached to : DG SET NO-4
Type of fuel used : HSD
Stack height above the ground level : 7 MTR
Stack dia at the top : 304 MM
Attached APCS : ACCOUSTIC ENCLOSURE
D.G.set commissioning date : --

Capacity of D.G. : 750 KVA
Quantity of fuel used : 70-80 LTR/HR
Stack height above the roof top : --
Material of Construction : MS
Normal Operating Schedule : AS PER REQUIREMENT

PHYSICAL OBSERVATIONS

Ambient Temperature : 32°C
Velocity of the flue gases : 16.0 Mtr/Sec
Sampling Flow Rate for Gases : 2.7 LPM

Flue gas temperature : 210°C
Sampling Flow Rate of SPM : 16.0 LPM
Quantity of Emission discharged : 2578.15 Nm³/hr

TEST RESULT

S.No.	Test Parameters	Units	Method	Result	Specification/Limits (As Per CPCB)
1	Carbon Monoxide (CO)	g/kw-hr	IS:13270	1.8	<3.5
2	Particulate Matters (PM)	g/kw-hr	IS:11255 (Part-1)	0.12	<0.2
3	Oxides of Nitrogen + HC	g/kw-hr	IS:11255 (Part-7) GC Method	2.4	<4.0

End of Report

ED-051/19/09/23-1



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TEST REPORT

Page No.: 1 of 1

TEST REPORT No. NCL/ED-057/19/09/23

DATE OF REPORT : 23/09/2023

Name and Address of Customer

M/S AGM (E) AAI JAMMU THROUGH
AIRPORT ROAD, SATWARI, JAMMU

SAMPLING DETAIL

Sample Name : NOISE MONITORING

Analysis Start Date : 19/09/2023

Date of Sampling : 18/09/2023

Time of Sampling : 01:40 PM

Analysis End Date : 19/09/2023

Sampling Done By : NCL

Equipments Used : SLM-4010

Sampling Location : DG SET NO-4 (750 KVA)

Sampling Protocol : IS:4758-1968

Ambient Temperature : 30°C

Sample ID No. : NCL/ED-057/19/09/23

Sample Duration : 20 MIN

Sampling Flow Rate : --

TEST RESULT

S.No.	Test Parameters	Units	Test Method	Results	Specification As Per CPCB
1	Average Noise Level (All Doors of Acoustic Enclosure Were Open)	dB(A)	IS: 4758- 1968 (R 2017)	98.6	Not Specified
2	Average Noise Level (All Doors of Acoustic Enclosure Were Closed)	dB(A)	IS: 4758- 1968 (R 2017)	72.3	75.0 Max
3	Insertion Loss	dB(A)	IS: 4758- 1968 (R 2017)	26.3	25.0 Min

End of Report

ED-057/19/09/23-1



Sonu
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NOISE MONITORING ANALYSIS REPORT

Page No.: 1 of 1

TEST REPORT No. NCL/EP-012/03/12/22		DATE OF REPORT : 07/12/2022
Name and Address of Customer	M/S AGM (E) AAI JAMMU THROUGH MR. ANIL KUMAR SHARMA AIRPORT ROAD, SATWARI, JAMMU	

SAMPLING DETAIL

Analysis Start Date : 03/12/2022
Date of Sampling : 02/12/2022
Time of Sampling : 01:30 PM
Sampling Location : DG SET NO-1 (750 KVA)
Sampling Protocol : IS:4758:1968
Ambient Temperature : 18°C
Analysis End Date : 03/12/2022
Sampling Done By : NCL
Equipments Used : SLM-4010
Sample ID No. : NCL/EP-012/03/12/22
Sample Duration : 20 MIN
Sampling Flow Rate : --

TEST RESULT

S.No.	Test Parameters	Units	Test Method	Results	Specification As Per CPCB
1	Average Noise Level (All Doors of Acoustic Enclosure Were Open)	dB(A)	IS: 4758- 1968 (R 2017)	97.6	Not Specified
2	Average Noise Level (All Doors of Acoustic Enclosure Were Closed)	dB(A)	IS: 4758- 1968 (R 2017)	71.4	75.0 Max
3	Insertion Loss	dB(A)	IS: 4758- 1968 (R 2017)	26.2	25.0 Min

End of Report

EP-012/03/12/22-1



Checked by
Manoj Kumar Yadav
Section Incharge

FOR NEWCON CONSULTANTS & LABORATORIES

Authorized Signatory
Dr. Ramesh Chandra Tripathi
Quality Head

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NOISE MONITORING ANALYSIS REPORT

TEST REPORT No. NCL/EP-013/03/12/22	DATE OF REPORT : 07/12/2022
Name and Address of Customer	M/S AGM (E) AAI JAMMU THROUGH MR. ANIL KUMAR SHARMA AIRPORT ROAD, SATWARI, JAMMU

SAMPLING DETAIL

Analysis Start Date	: 03/12/2022	Analysis End Date	: 03/12/2022
Date of Sampling	: 02/12/2022	Sampling Done By	: NCL
Time of Sampling	: 2:20	Equipments Used	: SLM-4010
Sampling Location	: DG SET NO-2 (1010 KVA)	Sample ID No.	: NCL/EP-013/03/12/22
Sampling Protocol	: IS:4758-1968	Sample Duration	: 20 MIN
Ambient Temperature	: 18°C	Sampling Flow Rate	: --

TEST RESULT

S.No.	Test Parameters	Units	Test Method	Results	Specification As Per CPCB
1	Average Noise Level (All Doors of Acoustic Enclosure Were Open)	dB(A)	IS- 4758- 1968 (R 2017)	98.3	Not Specified
2	Average Noise Level (All Doors of Acoustic Enclosure Were Closed)	dB(A)	IS- 4758- 1968 (R 2017)	72.5	75.0 Max
3	Insertion Loss	dB(A)	IS- 4758- 1968 (R 2017)	25.8	25.0 Min

End of Report



EP-013/03/12/22-1

Checked by
Manoj Kumar Yadav

Manoj Kumar Yadav

Section Incharge

FOR NEWCON CONSULTANTS & LABORATORIES
Dr. Ramesh Chandra Tipirathi
 Authorized Signatory
 Dr. Ramesh Chandra Tipirathi
 Quality Head

- The test report refers only to the particular sample/s submitted for testing and listed parameters.
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- Complaints about this report should be communicated within 10 days of the Issue Date of this report.
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NOISE MONITORING ANALYSIS REPORT

Page No.: 1 of 1

TEST REPORT No. NCL/EP-014/03/12/22

DATE OF REPORT : 07/12/2022

Name and Address of Customer	M/S AGM (E) AAI JAMMU THROUGH MR. ANIL KUMAR SHARMA AIRPORT ROAD, SATWARI, JAMMU
------------------------------	---

SAMPLING DETAIL

Analysis Start Date	: 03/12/2022	Analysis End Date	: 03/12/2022
Date of Sampling	: 02/12/2022	Sampling Done By	: NCL
Time of Sampling	: 03:10	Equipments Used	: SLM-4010
Sampling Location	: DG SET NO-3 (380 KVA)	Sample ID No.	: NCL/EP-014/03/12/22
Sampling Protocol	: IS-4758-1968	Sample Duration	: 20 MIN
Ambient Temperature	: 18°C	Sampling Flow Rate	: --

TEST RESULT

S.No.	Test Parameters	Units	Test Method	Results	Specification As Per CPCB
1	Average Noise Level (All Doors of Acoustic Enclosure Were Open)	dB(A)	IS: 4758-1968 (R 2017)	96.5	Not Specified
2	Average Noise Level (All Doors of Acoustic Enclosure Were Closed)	dB(A)	IS: 4758-1968 (R 2017)	70.2	75.0 Max
3	Insertion Loss	dB(A)	IS: 4758-1968 (R 2017)	26.3	25.0 Min

End of Report



EP-014/03/12/22-1

Checked by

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Section Incharge

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Dr. Ramesh Chandra Tripathi

Quality Head

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NOISE MONITORING ANALYSIS REPORT

Page No.: 1 of 1

TEST REPORT No. NCL/EP-015/03/12/22	DATE OF REPORT : 07/12/2022
Name and Address of Customer	M/S AGM (E) AAI JAMMU THROUGH MR. ANIL KUMAR SHARMA AIRPORT ROAD, SATWARI, JAMMU

SAMPLING DETAIL

Analysis Start Date	: 03/12/2022	Analysis End Date	: 03/12/2022
Date of Sampling	: 02/12/2022	Sampling Done By	: NCL
Time of Sampling	: 3:30 PM	Equipments Used	: SLM-4010
Sampling Location	: DG SET NO-4 (750 KVA)	Sample ID No.	: NCL/EP-015/03/12/22
Sampling Protocol	: IS:4758-1988	Sample Duration	: 20 MIN
Ambient Temperature	: 18°C	Sampling Flow Rate	: -

TEST RESULT

S.No.	Test Parameters	Units	Test Method	Results	Specification As Per
1	Average Noise Level (All Doors of Acoustic Enclosure Were Open)	dB(A)	IS: 4758- 1988 (R 2017)	97.1	Not Specified
2	Average Noise Level (All Doors of Acoustic Enclosure Were Closed)	dB(A)	IS: 4758- 1988 (R 2017)	71.2	75.0 Max
3	Insertion Loss	dB(A)	IS: 4758- 1988 (R 2017)	25.9	25.0 Min

End of Report



EP-015/03/12/22-1

Checked by
Manoj Kumar Yadav
Section Incharge

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Dr. Ramesh Chandra Tripathi
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TEST REPORT

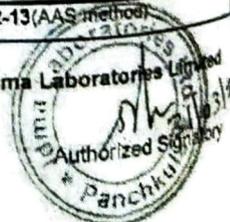
Ref. No. IL/D- 25392	Date 31.03.21	Lab No. 030321N-E-022	Page No. 1/1
Customer	Airports Authority of India Civil Airport Jammu Cantt		
Type of Sample	Ambient Air		
Customer's Description of Sample	Ambient Air		
Quantity	1 No.		
Packing, Markings	Filter Paper Packed in Polythene Pouch.		
Mode of Collection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

RESULTS

S.No.	Test Parameter	Units	Results	Specifications	Test Method
	CHEMICAL TESTING (Ambient air)	-	-	-	-
1	PM10	µg/m ³	78.5	Max. 100	NAAQMS/38/2012-13(Gravimetric method)
2	SO2	µg/m ³	18.2	Max. 80	NAAQMS/36/2012-13(Improved West & Gaele method)
3	NO2	µg/m ³	24.9	Max. 80	NAAQMS/36/2012-13(Modified Jacob & Hochheiser method)
4	CO	µg/m ³	0.45	Max. 2	NAAQMS/38/2012-13 & IS:5182(P-10): 1999
5	NH3	µg/m ³	30.6	Max. 400	NAAQMS/36/2012-13(Indophenol method)
6	PM2.5	µg/m ³	38.1	Max. 80	NAAQMS/36/2012-13(Gravimetric method)
7	Ozone	µg/m ³	22	Max. 100	NAAQMS/36/2012-13(Chemical method)
8	Benzene	µg/m ³	<0.5	Max. 5	NAAQMS/36/2012-13(GC method)
9	Benzo-a-Pyrene(BaP) - Particulate phase	ng/m ³	Not Detected	Max. 1	NAAQMS/36/2012-13(GC method)
10	Arsenic	ng/m ³	<0.1	Max. 6	NAAQMS/36/2012-13(AAS method)
11	Nickel	ng/m ³	<0.1	Max. 20	NAAQMS/36/2012-13(AAS method)
12	Lead	µg/m ³	<0.1	Max. 1	NAAQMS/36/2012-13(AAS method)

End of Report

For Idma Laboratories Limited



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TEST REPORT

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

RESULTS

S.No.	Test Parameter	Units	Results	Limits, Day	Test Method
	CHEMICAL DISCIPLINE (Ambient Noise Levels)				
1	Lday	dB(A)	62.3	Max. 65	EPA Guidline Manual July 2008
2	LNight	dB(A)	57.5	Max. 60	EPA Guidline Manual July 2008

End of Report

For Idma Laboratories Limited
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TEST REPORT

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

RESULTS

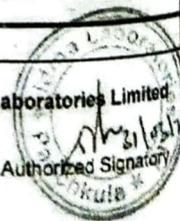
S.No.	Test Parameter	Units	Results	Specifications	Test Method
	CHEMICAL TESTING (Stack emission)	-	-	-	-
	GENERAL INFORMATIONS:	-	-	-	-
1	Stack Height	Meters	8	-	-
2	Stack dia	Meters	0.1524	-	-
3	Ambient Temperature	°C	24	-	-
4	Stack Temperature	°C	130	-	-
5	Velocity	m/s	10	-	-
6	Type of Fuel	-	HSD	-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

End of Report

For
31/3/21

For Idma Laboratories Limited

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TEST REPORT

Ref. No. IL/D- 25395	Date 31.03.21	Lab No. 030321N-E-026	Page No. 1/1
Customer	Airports Authority of India Civil Airport Jammu Cantt		
Type of Sample	Stack Emission (DG)		
Customer's Description of Sample	Stack Emission (DG)		
Quantity	1 No.		
Packing, Markings	Thimble Packed in polythene Pouch.		
Mode of Collection of Sample	Sampling by Laboratories		
Work Order No.	AAI/JAMMU/ENGG/(C)/W-26/2	Dated	23/03/2021
Date of Receipt of Sample	26/03/2021		
Period of Analysis	26/03/2021 To 31/03/2021		
Sampling Team Idma	Idma Representative Team	Client	Mr. Anil Kumar
Sampling Location	Stack Attached Cummins DG-No.2, 750 KVA		
Visual Observation	N/A		
Date of Sampling	24/03/2021		
Date of Reporting	31/03/2021		
Sampling Protocol	CPCB		
Testing Protocol	CPCB		

RESULTS

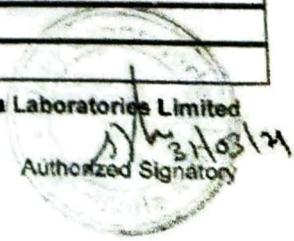
S.No.	Test Parameter	Units	Results	Specifications	Test Method
	CHEMICAL TESTING (Stack emission)	-	-	-	-
	GENERAL INFORMATIONS:	-	-	-	-
1	Stack Height	Meters	8	-	-
2	Stack dia	Meters	0.1524	-	-
3	Ambient Temperature	°C	24	-	-
4	Stack Temperature	°C	136	-	-
5	Velocity	m/s	9.8	-	-
6	Type of Fuel	-	HSD	-	-
7	Sampling Flow rate	LPM	27.3	-	-
8	Sampling Time	Minutes	33	-	-
9	Volumetric Flow rate	Nm ³ /hr	478	-	-
	PARAMETERS:	-	-	-	-
10	PM	g/kW-hr	0.11	Max. 0.2	USEPA Method 5
11	CO	g/kW-hr	1.8	Max. 3.5	USEPA Method 10,10A
12	NOx + HC	g/kW-hr	2.5	Max. 4.0	USEPA Method 7E
13	SO2	g/kW-hr	0.29	-	USEPA Method 6C

End of Report

For Idma Laboratories Limited

Authorized Signatory

31/03/21



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TEST REPORT

Ref. No. R/D- 25396	Date 31/03/21	Lab No. 030321N-E-026	Page No. 1/1
Customer:	Airports Authority of India Civil Airport Jammu Cantt		
Type of Sample	Noise Level D G		
Customer's Description of Sample	Noise Level D G		
Quantity	1 No		
Packing Markings	Instrument at site		
Mode of Collection of Sample	Sampling by Laboratories		
Work Order No	AAI/JAMMU/ENGG/(C)/W-26/2	Dated	23/03/2021
Date of Receipt of Sample	26/03/2021		
Period of Analysis	26/03/2021 To 31/03/2021		
Sampling Team Idma	Idma Representative Team	Client	Mr. Anil Kumar
Sampling Location	DG Noise Cummins 750 KVA		
Visual Observation	N/A		
Date of Sampling	24/03/2021		
Date of Reporting	31/03/2021		
Sampling Protocol	CPCB		
Testing Protocol	CPCB		

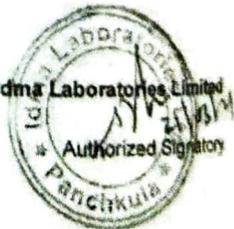
RESULTS

S. No.	Test Parameter	Units	Result	Specifications	Test Method
	CHEMICAL DISCIPLINE (Source Noise Level)	-	-	-	-
1	1.0 m from the enclosure surface	dB(A)	73.4	Max. 75.0	EPA Guidline Manual July 2008
2	0.5 m surface acoustic enclosure when door are open	dB (A)	102.2	-	EPA Guidline Manual July 2008
3	0.5 m surface acoustic enclosure when door are Close	dB (A)	78.5	-	EPA Guidline Manual July 2008
4	Insertion Loss	dB (A)	25.7	Min. 25	EPA Guidline Manual July 2008

End of Report

For Idma Laboratories Limited

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31/3/21

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TEST REPORT

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

RESULTS

S.No.	Test Parameter	Units	Result	Specifications	Test Method
	CHEMICAL DISCIPLINE (Source Noise Level)	-	-	-	-
1	1.0 m from the enclosure surface	dB(A)	72.6	Max. 75.0	EPA Guidline Manual July 2008
2	0.5 m surface acoustic enclosure when door are open	dB (A)	101.9	-	EPA Guidline Manual July 2008
3	0.5 m surface acoustic enclosure when door are Close	dB (A)	78.3	-	EPA Guidline Manual July 2008
4	Insertion Loss	dB (A)	25.6	Min. 25	EPA Guidline Manual July 2008

End of Report

For Idma Laboratories Limited

Authorized Signatory



Handwritten initials and date: 31/3/21

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TEST REPORT

Ref. No. IL/D- 25398	Date 31.03.21	Lab No. 030321N-E-028	Page No. 1/1
Customer	Airports Authority of India Civil Airport Jammu Cantt		
Type of Sample	Waste Water (STP OUTLET)		
Customer's Description of Sample	Waste Water (STP OUTLET)		
Quantity	5 LTR		
Packing, Markings	Plastic Can.		
Mode of Collection of Sample	Sampling by Laboratories		
Work Order No.	AAI/JAMMU/ENGG(C)/W-26/2	Dated	23/03/2021
Date of Receipt of Sample	26/03/2021		
Period of Analysis	26/03/2021 To 31/03/2021		
Sampling Team Idma	Idma Representative Team	Client	Mr. Anil Kumar
Sampling Location	STP Plant.		
Visual Observation	N/A		
Date of Sampling	24/03/2021		
Date of Reporting	31/03/2021		
Sampling Protocol	IS: 3026-1987		
Testing Protocol	CPCB		

RESULTS

S.No.	Test Parameter	Units	Results	Specifications	Test Method
	CHEMICAL TESTING (Waste Water)	-	-	-	-
1	pH	-	7.61	6.5-8.0	APHA4500-H+ B23rd Edition 2017
2	Chemical Oxygen Demand (COD)	mg/L	59.2	-	CPCB Guide Manual:Water & waste water Analysis
3	Biochemical Oxygen Demand	mg/L	14	Max. 20	CPCB Guide Manual:Water & waste water Analysis
4	Oil & Grease	mg/L	2.9	-	EPA Method 1664
5	Total Dissolved Solids (TDS)	mg/L	644	-	APHA2540 C23rd Edition 2017
6	Total Suspended Solids (TSS)	mg/L	21	Max. 50	APHA2540 D23rd Edition 2017

RSD
31/3/21

End of Report

For Idma Laboratories Limited

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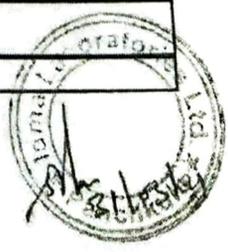
TEST REPORT

Ref. No. IL/D- 25399	Date 31/03/21	Lab No. 030321N-E-029	Page No. 1/2
Customer	Airports Authority of India Civil Airport Jammu Cantt		
Type of Sample	Drinking Water		
Customer's Description of Sample	Drinking Water		
Quantity	5 LTR.		
Packing, Markings, Seal & Quantity	Plastic Can.		
Mode of Collection of Sample	Sampling by Laboratories		
Work Order No.	AAI/JAMMU/ENGG/(C)/W-26/2	Dated	23/03/2021
Date of Receipt of Sample	26/03/2021		
Period of Analysis	26/03/2021 To 31/03/2021		
Sampling Team Idma	Idma Representative Team	Client	Mr. Anil Kumar
Sampling Location	Terminal		
Visual Observation	N/A		
Date of Sampling	24/03/2021		
Date of Reporting	31/03/2021		
Sampling Protocol	IS: 3025-1987		
Testing Protocol	IS: 10500:2012 Amdt 1 & 2		

RESULTS

S.No.	Test Parameter	Units	Results	Limit of IS: 10500-2012		Test Method
				Requirement (Acceptable Limit)	Permissible Limit in absence of alternate	
	Chemical Testing (Water)	-	-	-	-	-
1	Color	Hazen	<1	Max. 5	Max. 15	APHA 2120 B&C 23rd Edition, 2017
2	Odour	Qualitative	Agreeable	Agreeable	Agreeable	APHA 2150 B 23rd Edition, 2017
3	pH	-	7.26	6.5-8.5	No Relaxation	APHA 4500H+B 23rd Edition, 2017
4	Chloride as Cl	mg/L	15.4	Max. 250	Max. 1000	APHA 4500Cl-B 23rd Edition, 2017
5	Fluoride as F	mg/L	0.2	Max. 1	Max. 1.5	CPCB Guide Manual: Water & waste water Analysis
6	Hardness Total (as CaCO ₃)	mg/L	86	Max. 200	Max. 600	APHA 2340C 23rd Edition, 2017
7	Total Dissolved Solids	mg/L	121	Max. 500	Max. 2000	APHA 2540 C 23rd Edition, 2017
8	Turbidity	NTU	1	Max. 1	Max. 5	APHA 3130 B 23rd Edition, 2017
9	Taste	Qualitative	Agreeable	Agreeable	Agreeable	APHA 2160 B 23rd Edition, 2017
10	Residual Free chlorine	mg/L	0.21	Min. 0.2	1	APHA 4500Cl B 23rd Edition, 2017
11	Iron as Fe	mg/L	0.09	Max. 1.0	No Relaxation	APHA 3125 B 23rd Edition 2017
	Biological Testing (Water)	-	-	-	-	-
12	E. Coll	/100ml	Absent	Shall not be	-	IS 15185:2016

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TEST REPORT

Page No. 2/2

Ref. No. IL/D- 25390		Date	31.03.21		Lab No.	030321N-E-029	
S.No.	Test Parameter	Units	Results	Limit of IS: 10800-2012		Test Method	
				Requirement (Acceptable Limit)	Permissible Limit in absence of alternate		
12				detectable in any 100ml sample			
13	Total Coliform Bacteria	/100ml	Absent	Shall not be detectable in any 100ml sample		IS 15185:2016	

End of Report

For Idma Laboratories Limited
 31/03/21
 Authorized Signatory



Rm
 31/3/21



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TEST REPORT

Ref. No. IL/D-	18675	Date	17/12/21	Lab No.	111221N-E-001	Page No.	1/1
Customer	Airports Authority of India Civil Airport Jammu Cantt						
Type of Sample	Ambient Air						
Customer's Description of Sample	Ambient Air						
Quantity	1 Nos.						
Packing, Markings	Filter Paper Packed in Polythene Pouch						
Mode of Collection of Sample	Sampling by Laboratories						
Work Order No.	A.A.O.I/JAMMU/ABHI(C)/2021/1544-48					Dated	16/11/2021
Date of Receipt of Sample	11/12/2021						
Period of Analysis	11/12/2021 To 16/12/2021						
Sampling Team Idma	Idma Representative Team					Client	Mr. Anil Kumar
Sampling Location	Near Out Gate No-1						
Visual Observation	N/A						
Date of Sampling	09/12/2021						
Date of Reporting	16/12/2021						
Sampling Protocol	IS: 5182						
Testing Protocol	NAAQS						

RESULTS

S.No.	Test Parameter	Units	Results	Specifications	Test Method
	CHEMICAL TESTING (Ambient air)	-	-	-	-
1	PM10	ug/m ³	76.2	Max. 100	NAAQMS/36/2012-13(Gravimetric method)
2	SO ₂	ug/m ³	17.6	Max. 80	NAAQMS/36/2012-13(Improved West & Gaeke method)
3	NO ₂	ug/m ³	22.5	Max. 80	NAAQMS/36/2012-13(Modified Jacob & Hochheiser method)
4	NH ₃	ug/m ³	28.1	Max. 400	NAAQMS/36/2012-13(Indophenol method)
5	PM _{2.5}	ug/m ³	35.9	Max. 60	NAAQMS/36/2012-13(Gravimetric method)
6	CO	mg/m ³	0.39	Max. 2	NAAQMS/36/2012-13 & IS 5182 Part 10:1999
7	Ozone	ug/m ³	21	Max. 100	NAAQMS/36/2012-13(Chemical method)
8	Benzene	ug/m ³	<0.5	Max. 5	NAAQMS/36/2012-13(GC method)
9	Benzo-a-Pyrene(BaP) - Particulate phase	ng/m ³	Not Detected	Max. 1	NAAQMS/36/2012-13(GC method)
10	Arsenic	ng/m ³	<0.1	Max. 6	NAAQMS/36/2012-13(AAS method)
11	Nickel	ng/m ³	<0.1	Max. 20	NAAQMS/36/2012-13(AAS method)
12	Lead	ug/m ³	<0.1	Max. 1	NAAQMS/36/2012-13(AAS method)

End of Report

For Idma Laboratories Limited

Authorized Signatory

Ref. 18675
17/12/2021



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TEST REPORT

Page No. 1/1

Ref. No. IL/D-	18676	Date	17.12.21	Lab No.	111221N-E-002		
Customer	Airports Authority of India Civil Airport Jammu Cantt						
Type of Sample	Ambient Air						
Customer's Description of Sample	Ambient Air						
Quantity	1 Nos.						
Packing, Markings	Filter Paper Packed in Polythene Pouch						
Mode of Collection of Sample	Sampling by Laboratories						
Work Order No.	A.A.O. JAMMU/ABH(C)/2021/1544-48			Dated	16/11/2021		
Date of Receipt of Sample	11/12/2021						
Period of Analysis	11/12/2021 To 16/12/2021						
Sampling Team Idma	Idma Representative Team			Client	Mr. Anil Kumar		
Sampling Location	Near Entry Gate No-1						
Visual Observation	N/A						
Date of Sampling	09/12/2021						
Date of Reporting	16/12/2021						
Sampling Protocol	IS: 5182						
Testing Protocol	NAAQS						

RESULTS

S.No.	Test Parameter	Units	Results	Specifications	Test Method
	CHEMICAL TESTING (Ambient air)	-	-	-	-
1	PM10	µg/m ³	75.8	Max. 100	NAAQMS/36/2012-13(Gravimetric method)
2	SO ₂	µg/m ³	17.0	Max. 80	NAAQMS/36/2012-13(Improved West & Gaeke method)
3	NO ₂	µg/m ³	23.5	Max. 80	NAAQMS/36/2012-13(Modified Jacob & Hochheiser method)
4	NH ₃	µg/m ³	28.1	Max. 400	NAAQMS/36/2012-13(Indophenol method)
5	PM2.5	µg/m ³	37.6	Max. 60	NAAQMS/36/2012-13(Gravimetric method)
6	CO	mg/m ³	0.41	Max. 2	NAAQMS/36/2012-13 & IS 5182 Part 10:1999
7	Ozone	µg/m ³	21	Max. 100	NAAQMS/36/2012-13(Chemical method)
8	Benzene	µg/m ³	<0.5	Max. 5	NAAQMS/36/2012-13(GC method)
9	Benzo-a-Pyrene(BaP) - Particulate phase	ng/m ³	Not Detected	Max. 1	NAAQMS/36/2012-13(GC method)
10	Arsenic	ng/m ³	<0.1	Max. 6	NAAQMS/36/2012-13(AAS method)
11	Nickel	ng/m ³	<0.1	Max. 20	NAAQMS/36/2012-13(AAS method)
12	Lead	µg/m ³	<0.1	Max. 1	NAAQMS/36/2012-13(AAS method)

End of Report

R. Sharma
16/12/21

For Idma Laboratories Limited

[Signature]
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TEST REPORT

Ref. No. IL/D-	18677	Date	17/12/21	Lab No.	111221N-E-003	Page No.	1/1
Customer	Airports Authority of India Civil Airport Jammu Cantt						
Type of Sample	NOISE LEVEL (AMBIENT)						
Customer's Description of Sample	NOISE LEVEL (AMBIENT)						
Quantity	1 Nos.						
Packing, Markings	Instrument at Site.						
Mode of Collection of Sample	Sampling by Laboratories						
Work Order No.	A.A.O./JAMMU/ABHI(C)/2021/1544-48				Dated	16/11/2021	
Date of Receipt of Sample	11/12/2021						
Period of Analysis	11/12/2021 To 16/12/2021						
Sampling Team Idma	Idma Representative Team				Client	Mr. Anil Kumar	
Sampling Location	Near Out Gate No-1						
Visual Observation	N/A						
Date of Sampling	09/12/2021						
Date of Reporting	16/12/2021						
Sampling Protocol	CPCB						
Testing Protocol	EPA/CPCB						

RESULTS

S.No.	Test Parameter	Units	Results	Limits, Day	Test Method
	CHEMICAL DISCIPLINE (Ambient Noise Levels)	-	-	-	-
1	Lday	dB(A)	63.1	Max 65	EPA Guidline Manual July 2008
2	LNight	dB(A)	56.8	Max 60	EPA Guidline Manual July 2008

End of Report

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For Idma Laboratories Limited



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TEST REPORT

Ref. No. IL/D- 18678	Date 17.12.21	Lab No. 111221N-E-004	Page No. 1/1
Customer	Airports Authority of India Civil Airport Jammu Cantt		
Type of Sample	NOISE LEVEL (AMBIENT)		
Customer's Description of Sample	NOISE LEVEL (AMBIENT)		
Quantity	1 Nos.		
Packing, Markings	Instrument at Site.		
Mode of Collection of Sample	Sampling by Laboratories		
Work Order No.	A.A.O.I/JAMMU/ABHI(C)/2021/1544-48	Dated	16/11/2021
Date of Receipt of Sample	11/12/2021		
Period of Analysis	11/12/2021 To 16/12/2021		
Sampling Team Idma	Idma Representative Team	Client	Mr. Anil Kumar
Sampling Location	Near Entry Gate		
Visual Observation	N/A		
Date of Sampling	09/12/2021		
Date of Reporting	16/12/2021		
Sampling Protocol	CPCB		
Testing Protocol	EPA/CPCB		

RESULTS

S.No.	Test Parameter	Units	Results	Limits, Day	Test Method
	CHEMICAL DISCIPLINE (Ambient Noise Levels)	-	-	-	-
1	Lday	dB(A)	62.1	Max 65	EPA Guideline Manual July 2008
2	LNight	dB(A)	51.4	Max 60	EPA Guideline Manual July 2008

End of Report

For Idma Laboratories Limited



Rishu
16/12/2021



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TEST REPORT

Ref. No. ILD- 18724	Date 17.12.21	Lab No. 111221N-E-005	Page No. 1/2
Customer	Airports Authority of India Civil Airport Jammu Cantt Jammu		
Type of Sample	RO Water		
Customer's Description of Sample	RO Water		
Quantity	5 Ltr.+250ml		
Packing, Markings, Seal & Quantity	Plastic Can+ Glass Bottle		
Mode of Collection of Sample	Sampling by Laboratories		
Work Order No.	A.A.O./JAMMU/ABHI(C)/2021/1544-48	Dated	16/11/2021
Date of Receipt of Sample	11/12/2021		
Period of Analysis	11/12/2021 To 16/12/2021		
Sampling Team Idma	Idma Representative Team	Client	Mr. Anil Kumar
Sampling Location	Near Canteen		
Visual Observation	N/A		
Date of Sampling	09/12/2021		
Date of Reporting	16/12/2021		
Sampling Protocol	IS: 3025-1987/ILL SOP/MB/034		
Testing Protocol	IS: 10500:2012 Amdt 1 & 2		

RESULTS

S.No.	Test Parameter	Units	Results	Limit of IS: 10500-2012		Test Method
				Requirement (Acceptable Limit)	Permissible Limit in absence of alternate Source	
	Chemical Testing (Water)	-	-	-	-	-
1	Color	Hazen	<1	Max. 5	Max. 15	APHA 2120 B&C 23rd Edition, 2017
2	Odour	Qualitative	Agreeable	Agreeable	Agreeable	APHA 2150 B 23rd Edition, 2017
3	pH	-	7.24	6.5-8.5	No Relaxation	APHA 4500H+B 23rd Edition, 2017
4	Chloride as Cl	mg/L	14.6	Max. 250	Max. 1000	APHA 4500Cl- B 23rd Edition, 2017
5	Fluoride as F	mg/L	0.2	Max. 1	Max. 1.5	CPCB Guide Manual/Water & waste water Analysis
6	Hardness Total (as CaCO ₃)	mg/L	80	Max. 200	Max. 600	APHA 2340C 23rd Edition, 2017
7	Total Dissolved Solids	mg/L	131	Max. 500	Max. 2000	APHA 2540 C 23rd Edition, 2017
8	Turbidity	NTU	<1	Max. 1	Max. 5	APHA 3130 B 23rd Edition, 2017
9	Taste	Qualitative	Agreeable	Agreeable	Agreeable	APHA 2160 B 23rd Edition, 2017
10	Residual Free chlorine	mg/L	0.21	Min. 0.2	1	APHA 4500Cl B 23rd Edition, 2017
11	Iron as Fe	mg/L	0.09	Max. 1.0	No Relaxation	APHA 3125 B 23rd Edition 2017
	Biological Testing (Water)	-	-	-	-	-

Rama
16/12/21



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TEST REPORT

Ref. No. IL/D- 18724		Date	17-12-21	Lab No.	111221N-E-005	Page No. 2/2
S.No.	Test Parameter	Units	Results	Limit of IS: 10500-2012		Test Method
				Requirement (Acceptable Limit)	Permissible Limit in absence of alternate Source	
12	E. Coli	/100ml	Absent	Shall not be detectable in any 100ml sample	--	IS 15185:2016
13	Total Coliform Bacteria	/100ml	Absent	Shall not be detectable in any 100ml sample	--	IS 15185:2016

End of Report

Rena
Analyst 16/12/21



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TEST REPORT

Ref. No. ILD- 18725	Date 17-12-21	Lab No. 111221N-E-006	Page No. 1/2
Customer	Airports Authority of India Civil Airport Jammu Cantt Jammu		
Type of Sample	RO Water		
Customer's Description of Sample	RO Water		
Quantity	5 Ltr.+250ml		
Packing, Markings, Seal & Quantity	Plastic Can+ Glass Bottle		
Mode of Collection of Sample	Sampling by Laboratories		
Work Order No.	A.A.O.I/JAMMU/ABHI(C)/2021/1544-48	Dated	16/11/2021
Date of Receipt of Sample	11/12/2021		
Period of Analysis	11/12/2021 To 16/12/2021		
Sampling Team Idma	Idma Representative Team	Client	Mr. Anil Kumar
Sampling Location	Waiting Hall		
Visual Observation	N/A		
Date of Sampling	09/12/2021		
Date of Reporting	16/12/2021		
Sampling Protocol	IS: 3025-1987/ILLSOP/MB/034		
Testing Protocol	IS: 10500:2012 Amdt 1 & 2		

RESULTS

S.No.	Test Parameter	Units	Results	Limit of IS: 10500-2012		Test Method
				Requirement (Acceptable Limit)	Permissible Limit in absence of alternate Source	
	Chemical Testing (Water)	-	-	-	-	-
1	Color	Hazen	<1	Max. 5	Max. 15	APHA 2120 B&C 23rd Edition, 2017
2	Odour	Qualitative	Agreeable	Agreeable	Agreeable	APHA 2150 B 23rd Edition, 2017
3	pH	-	7.18	6.5-8.5	No Relaxation	APHA 4500H+B 23rd Edition, 2017
4	Chloride as Cl	mg/L	16.2	Max. 250	Max. 1000	APHA 4500Cl- B 23rd Edition, 2017
5	Fluoride as F	mg/L	0.2	Max. 1	Max. 1.5	CPCB Guide Manual:Water & waste water Analysis
6	Hardness Total (as CaCO3)	mg/L	74	Max. 200	Max. 600	APHA 2340C 23rd Edition, 2017
7	Total Dissolved Solids	mg/L	110	Max. 500	Max. 2000	APHA 2540 C 23rd Edition, 2017
8	Turbidity	NTU	<1	Max. 1	Max. 5	APHA 3130 B 23rd Edition, 2017
9	Taste	Qualitative	Agreeable	Agreeable	Agreeable	APHA 2160 B 23rd Edition, 2017
10	Residual Free chlorine	mg/L	0.21	Min. 0.2	1	APHA 4500Cl B 23rd Edition, 2017
11	Iron as Fe	mg/L	0.09	Max. 1.0	No Relaxation	APHA 3125 B 23rd Edition 2017
	Biological Testing (Water)	-	-	-	-	-

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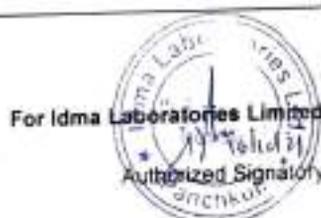
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TEST REPORT

Ref. No. IL/D- 18725		Date	17.12.21	Lab No.	111221N-E-006	Page No. 2/2
S.No.	Test Parameter	Units	Results	Limit of IS: 10500-2012		Test Method
				Requirement (Acceptable Limit)	Permissible Limit in absence of alternate Source	
12	E. Coli	/100ml	Absent	Shall not be detectable in any 100ml sample	--	IS 15185:2016
13	Total Coliform Bacteria	/100ml	Absent	Shall not be detectable in any 100ml sample	--	IS 15185:2016

End of Report

Pam
Analyst 16/12/21



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TEST REPORT

Ref. No. IL/D- 18679	Date 17.12.21	Lab No. 111221N-E-007	Page No. 1/1
Customer	Airports Authority of India Civil Airport Jammu Cantt		
Type of Sample	Waste Water (STP Outlet)		
Customer's Description of Sample	Waste Water (STP Outlet)		
Quantity	5 Ltr.		
Packing, Markings	Plastic Can		
Mode of Collection of Sample	Sampling by Laboratories		
Work Order No.	A.A.O./JAMMU/ABHI(C)/2021/1544-48	Dated	16/11/2021
Date of Receipt of Sample	11/12/2021		
Period of Analysis	11/12/2021 To 16/12/2021		
Sampling Team Idma	Idma Representative Team	Client	Mr. Anil Kumar
Sampling Location	STP Plant		
Visual Observation	N/A		
Date of Sampling	09/12/2021		
Date of Reporting	16/12/2021		
Sampling Protocol	IS: 3025-1987		
Testing Protocol	CPCB		

RESULTS

S.No.	Test Parameter	Units	Results	Specifications	Test Method
	CHEMICAL TESTING (Waste Water)	-	-	-	-
1	pH	-	7.52	6.5-9.0	APHA4500-H+ B23rd Edition 2017
2	Chemical Oxygen Demand (COD)	mg/L	54.7	-	CPCB Guide Manual/Water & waste water Analysis
3	Biochemical Oxygen Demand	mg/L	14	Max. 20	CPCB Guide Manual/Water & waste water Analysis
4	Oil & Grease	mg/L	2.6	-	EPA Method 1664
5	Total Dissolved Solids (TDS)	mg/L	590	-	APHA2540 C23rd Edition 2017
6	Total Suspended Solids (TSS)	mg/L	23	Max. 50	APHA2540 D23rd Edition 2017

End of Report

Ref
16/12/21

For Idma Laboratories Limited



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TEST REPORT

Ref. No. IL/D- 18680	Date 17/12/21	Lab No. 111221N-E-008	Page No. 1/1
Customer	Airports Authority of India Civil Airport Jammu Cantt		
Type of Sample	Stack Emission (DG)		
Customer's Description of Sample	Stack Emission (DG)		
Quantity	1 No		
Packing, Markings	Thimble Packed in Polythene Pouch.		
Mode of Collection of Sample	Sampling by Laboratories		
Work Order No.	A.A.O. I/JAMMU/ABHI(C)/2021/1544-48	Dated	16/11/2021
Date of Receipt of Sample	11/12/2021		
Period of Analysis	11/12/2021 To 16/12/2021		
Sampling Team Idma	Idma Representative Team	Client	Mr. Anil Kumar
Sampling Location	Stack Attach DG-1, 37339, 750 KVA		
Visual Observation	N/A		
Date of Sampling	09/12/2021		
Date of Reporting	16/12/2021		
Sampling Protocol	CPCB		
Testing Protocol	CPCB		

RESULTS

S.No.	Test Parameter	Units	Results	Specifications	Test Method
	CHEMICAL TESTING (Stack emission)	-	-	-	-
	GENERAL INFORMATIONS:	-	-	-	-
1	Stack Height	Meters	5.5	-	-
2	Stack dia	Meters	0.305	-	-
3	Ambient Temperature	°C	20	-	-
4	Stack Temperature	°C	98	-	-
5	Velocity	m/s	8	-	-
6	Type of Fuel	-	HSD	-	-
7	Sampling Flow rate	LPM	27	-	-
8	Sampling Time	Minutes	38	-	-
9	Volumetric Flow rate	Nm ³ /hr	1668	-	-
	PARAMETERS:	-	-	-	-
10	PM	g/kW-hr	0.12	Max. 0.2	USEPA Method 5
11	CO	g/kW-hr	1.8	Max. 3.5	USEPA Method 10, 10A
12	NOx + HC	g/kW-hr	2.7	Max. 4.0	USEPA Method 7E
13	SO2	g/kW-hr	0.30	-	USEPA Method 6C

End of Report

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TEST REPORT

Ref. No. IL/D-	18681	Date	17/12/21	Lab No.	111221N-E-009	Page No.	1/1
Customer	Airports Authority of India Civil Airport Jammu Cantt						
Type of Sample	Stack Emission (DG)						
Customer's Description of Sample	Stack Emission (DG)						
Quantity	1 No						
Packing, Markings	Thimble Packed in Polythene Pouch.						
Mode of Collection of Sample	Sampling by Laboratories						
Work Order No.	A.A.O./JAMMU/ABHI(C)/2021/1544-48					Dated	16/11/2021
Date of Receipt of Sample	11/12/2021						
Period of Analysis	11/12/2021 To 16/12/2021						
Sampling Team Idma	Idma Representative Team					Client	Mr. Anil Kumar
Sampling Location	Stack Attach DG-2, 37339, 750 KVA						
Visual Observation	N/A						
Date of Sampling	09/12/2021						
Date of Reporting	16/12/2021						
Sampling Protocol	CPCB						
Testing Protocol	CPCB						

RESULTS

S.No.	Test Parameter	Units	Results	Specifications	Test Method
	CHEMICAL TESTING (Stack emission)	-	-	-	-
	GENERAL INFORMATIONS:	-	-	-	-
1	Stack Height	Meters	5.5	-	-
2	Stack dia	Meters	0.305	-	-
3	Ambient Temperature	°C	20	-	-
4	Stack Temperature	°C	94	-	-
5	Velocity	m/s	9	-	-
6	Type of Fuel	-	HSD	-	-
7	Sampling Flow rate	LPM	22	-	-
8	Sampling Time	Minutes	30	-	-
9	Volumetric Flow rate	Nm ³ /hr	1896	-	-
	PARAMETERS:	-	-	-	-
10	PM	g/kW-hr	0.11	Max. 0.2	USEPA Method 5
11	CO	g/kW-hr	1.8	Max. 3.5	USEPA Method 10, 10A
12	NOx + HC	g/kW-hr	2.5	Max. 4.0	USEPA Method 7E
13	SO2	g/kW-hr	1.2	-	USEPA Method 6C

End of Report

For Idma Laboratories Limited

Authorized Signatory



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17/12/21



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TEST REPORT

Ref. No. IL/D- 18682	Date 17.12.21	Lab No. 111221N-E-010	Page No. 1/1
Customer	Airports Authority of India Civil Airport Jammu Cantt		
Type of Sample	Noise Level D.G.		
Customer's Description of Sample	Noise Level D.G.		
Quantity	1 No.		
Packing, Markings	Instrument at Site.		
Mode of Collection of Sample	Sampling by Laboratories		
Work Order No.	A.A.O I/JAMMU/ABHI(C)/2021/1544-48	Dated	16/11/2021
Date of Receipt of Sample	11/12/2021		
Period of Analysis	11/12/2021 To 16/12/2021		
Sampling Team Idma	Idma Representative Team	Client	Mr. Anil Kumar
Sampling Location	DG Noise cummins 750 KVA		
Visual Observation	N/A		
Date of Sampling	09/12/2021		
Date of Reporting	16/12/2021		
Sampling Protocol	CPCB		
Testing Protocol	CPCB		

RESULTS

S.No.	Test Parameter	Units	Result	Specifications	Test Method
	CHEMICAL DISCIPLINE (Source Noise Level)	-	-	-	-
1	1.0 m from the enclosure surface	dB(A)	72.7	Max. 75.0	EPA Guidline Manual July 2008
2	0.5 m surface acoustic enclosure when door are open	dB (A)	101.3	--	EPA Guidline Manual July 2008
3	0.5 m surface acoustic enclosure when door are Close	dB (A)	75.6	--	EPA Guidline Manual July 2008
4	Insertion Loss	dB (A)	25.7	Min. 25	EPA Guidline Manual July 2008

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16/12/21

End of Report

For Idma Laboratories Limited

SA
16/12/21



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TEST REPORT

Ref. No. IL/D- 18683	Date 17/12/21	Lab No. 111221N-E-011	Page No. 1/1
Customer	Airports Authority of India Civil Airport Jammu Cantt		
Type of Sample	Noise Level D.G.		
Customer's Description of Sample	Noise Level D.G.		
Quantity	1 No.		
Packing, Markings	Instrument at Site.		
Mode of Collection of Sample	Sampling by Laboratories		
Work Order No.	A.A.O.I/JAMMU/ABHI(C)/2021/1544-48	Dated	16/11/2021
Date of Receipt of Sample	11/12/2021		
Period of Analysis	11/12/2021 To 16/12/2021		
Sampling Team Idma	Idma Representative Team	Client	Mr. Anil Kumar
Sampling Location	DG Noise cummins 750 KVA		
Visual Observation	N/A		
Date of Sampling	09/12/2021		
Date of Reporting	16/12/2021		
Sampling Protocol	CPCB		
Testing Protocol	CPCB		

RESULTS

S.No.	Test Parameter	Units	Result	Specifications	Test Method
	CHEMICAL DISCIPLINE (Source Noise Level)	-	-	-	-
1	1.0 m from the enclosure surface	dB(A)	72.5	Max. 75.0	EPA Guidline Manual July 2008
2	0.5 m surface acoustic enclosure when door are open	dB (A)	101.5	--	EPA Guidline Manual July 2008
3	0.5 m surface acoustic enclosure when door are Close	dB (A)	75.9	--	EPA Guidline Manual July 2008
4	Insertion Loss	dB (A)	25.6	Min. 25	EPA Guidline Manual July 2008

End of Report

Handwritten signature and date: 16/12/21

For Idma Laboratories Limited



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