



भारतीय विमानपत्तन प्राधीकरण  
AIRPORTS AUTHORITY OF INDIA  
चेन्नाई हवाईअड्डा :: चेन्नाई- 600016  
CHENNAI AIRPORT:: CHENNAI-600016



सूचना का अधिकार अधिनियम प्रकोष्ठ  
R.T.I. CELL

No. AAM/RTI/DIRCA/R/T/21/00017/GM (E-E)/

Dated 03/08/2021

**RTI REPLY**

Sub: Online RTI Application dated 01/07/2021 of **Sh. RAKESH RAMESH DHOTRE**- Reg.

The information sought pertaining to Chennai Airport with respect to the online RTI Application filed by **Sh. RAKESH RAMESH DHOTRE** vide Reg. No. DIRCA/R/T/21/00017 dated 01/07/2021 is as under:

S.N	Query	Reply
1	Number of air quality monitoring location air side land side.	There is one station in air side and 4 stations in city side.
2	Monitoring reports of last six months.	The information sought comprises a total of 120 pages. (20 pages per each report). An additional amount of <b>Rs.240/-</b> (20 x 6 x Rs.2/- per page) has been sought online on 01.08.2021 from the applicant for provision of copies of the requisite documents, as per section 7(1) of RTI Act.
3	Measures being implemented by airlines for reduction of fuel consumption.	The information sought for private airlines is not available with this Public Authority. However, for the information with respect to Air India, the request has partially been transferred online to Air India vide Reg.No. AIRIN/R/X/21/00022 dated 02.08.2021.
4	Details of real time monitoring stations installed for monitoring the noise levels of aircrafts.	There are two real time monitoring stations installed for monitoring the noise levels of aircrafts as below: 1. One at Andal nagar at Cowl Bazar Near 07 end of Main runway. 2. One at HP petrol bunk adjacent to Radisson Blu Hotel Near 25 end of Main runway.
5	Noise monitoring reports of last six months air side land side.	The information comprises a total of 180 pages. (30 pages per each report). A sum of <b>Rs.360/-</b> (30 x 6 x Rs.2/- per page) has been sought online on 01.08.2021 from the applicant for provision of copies of the requisite documents, as per section 7(1) of RTI Act.

S.N	Query	Reply
6	Water consumption in last 3 years.	The Water Consumption of Chennai Airport for last 03 years is approximately 159 Crore Litres.
7	Measures implemented for energy conservation.	<ul style="list-style-type: none"> <li>• At present, all monitors are with TFT technology with auto-sleep mode.</li> <li>• Introduced common printers with power saving features.</li> <li>• All the light fittings have been converted to LED fittings. The provisions of sky lights is also made in the terminal building roof for light during day time thereby saving the electric energy</li> </ul>
8	Percentage of saving of energy due to the implementation of the energy conservation measures.	Percentage of energy conservation approximately 35%.
9	Measures implemented for harvesting of solar energy.	In the available space of roof top of cargo admin building, solar plants already installed. There is no further space available.
10	Copies of consent to operate latest copy environmental clearance six monthly compliance reports latest copy.	<ul style="list-style-type: none"> <li>• The copy of consent to operate for Air and Water the year of 2020-21 are enclosed as <u>Annexure-I &amp; II</u>.</li> <li>• The Copy of the Environment clearance obtained for the project is enclosed as <u>Annexure-III</u></li> <li>• The Copy of the latest compliance report submitted to TNPCB is enclosed in the link provided below :-  <a href="https://drive.google.com/file/d/14i-wfVDhMGG5zYrdE46MKH8cv5zYNhM/view?usp=sharing">https://drive.google.com/file/d/14i-wfVDhMGG5zYrdE46MKH8cv5zYNhM/view?usp=sharing</a></li> </ul>
11	Details of environmental management cell.	<ul style="list-style-type: none"> <li>• Environment Management cell was created at Chennai Airport in the year of 2019. Joint General Manager (Elect.) is the In-charge of EMC. The official from civil, Electrical ATM and Ops directorate will be Members of this cell.</li> <li>• Our Corporate Head Quarter, New Delhi, will assign the objective and responsibilities to this EMC at Chennai Airport.</li> <li>• The Main object of the EMC is to coordinate on environmental related activities, monitor and prepare the data base received from other departments.</li> </ul>

S.N	Query	Reply
12	Environmental initiatives taken by the airport.	<ul style="list-style-type: none"><li>• The proposed expansion of Terminal Building is being provided with 2 Nos. of sewage treatment plant of 2.25MLD and 1.20 MLD capacity of MBR technology. The treated water from the STP's shall be used for A/C plant, flushing of toilets at terminal building and for the horticulture.</li><li>• The roof water shall be connected to existing drains for ground water re-charge via existing re-charge wells / pits for energizing the natural ground water table.</li><li>• The upcoming building is being constructed in compliance with the GRIHA IV star rating.</li></ul>
		<ul style="list-style-type: none"><li>• Conducted awareness programs in the Airport Surrounding government schools and planted trees within the school campus. School students were holding the placards on the various environment related slogans and reciting the environment related quotes.</li><li>• Mass Movement of Tree plantation ceremony at the New physical training ground at Palavanthangal camp and highlighted the importance of water conservation for the present as well future generation.</li><li>• To enrich greenish surroundings and create awareness amongst out staff and passengers, we have distributed SEED balls to the passenger and staff of AAI.</li><li>• AAI Chennai Airport organized Mega wall art work and 402 panels of Airport boundary wall adjacent to GST road was painted with art work. In view of this Mega Art painting event, Universal achievers book of records consented to WARD WORLD RECORD to AAI, Chennai Airport.</li><li>• EMC coordinated for swachatha programmes conducted at various areas of Chennai Airport.</li></ul>

2. In case, applicant is not satisfied with the information provided, he may file an appeal before the following First Appellate Authority (FAA) as per Section 19(1) of the RTI Act, 2005 within 30 days from the receipt of this reply:

Dr. Sharad Kumar, FAA & Airport Director,  
AAI, Operational Offices, Meenambakkam, Chennai Airport,  
Chennai – 600 016 (Phone: 044 – 22561122) Email: [apdchennai@aai.aero](mailto:apdchennai@aai.aero)

  
(S.G. PANICKER) 4/8/21  
PIO-RTI/GM (Engg-Elect.)  
AAI, Chennai Airport



## TAMIL NADU POLLUTION CONTROL BOARD

Category of the Industry :

RED

CONSENT ORDER NO. 2008232052348 DATED: 01/09/2020.

PROCEEDINGS NO.T1/TNPCB/F.1653MMN/RL/MMN/A/2020 DATED: 01/09/2020

**SUB:** Tamil Nadu Pollution Control Board - RENEWAL OF CONSENT -M/s. CHENNAI INTERNATIONAL AIRPORT , S.F.No. 68/1A1A1A1A etc of Pammal, 99/2A1A1B etc of Pozhichalur, 47/2 etc of Pazhavanthangal, 140/1B etc of Cowl Bazaar, 155/1 etc of Nandambakkam, 1468/184 etc of St. Thomas Mount, 22/(242/14) etc of Cont. Pallavaram, 16/1 etc of Meenambakkam, 206/2A2 etc of Kolapakkam, 567/1 etc of Manapakkam Village, MEENAMBAKAAM village, Alandur Taluk and Chennai District - Renewal of Consent for the operation of the plant and discharge of emissions under Section 21 of the Air (Prevention and Control of Pollution) Act, 1981 as amended in 1987 (Central Act 14 of 1981) -Issued- Reg.

**REF:** 1. Proceedings No.: T1/TNPCB/F.1653MMN/RL/MMN/W&A/2019dt.11/06/2019  
2. IR.No : F.1653MMN/RL/DEE/MMN/2020 dated 17/06/2020

RENEWAL OF CONSENT is hereby granted under Section 21 of the Air (Prevention and Control of Pollution) Act, 1981 as amended in 1987 (Central Act 14 of 1981) (hereinafter referred to as "The Act") and the rules and orders made there under to

Joint General Manager

M/s.CHENNAI INTERNATIONAL AIRPORT,

S.F.No. 68/1A1A1A1A etc of Pammal, 99/2A1A1B etc of Pozhichalur, 47/2 etc of Pazhavanthangal, 140/1B etc of Cowl Bazaar, 155/1 etc of Nandambakkam, 1468/184 etc of St. Thomas Mount, 22/(242/14) etc of Cont. Pallavaram, 16/1 etc of Meenambakkam, 206/2A2 etc of Kolapakkam, 567/1 etc of Manapakkam Village, MEENAMBAKAAM village,  
Alandur Taluk,  
Chennai District.

Authorizing the occupier to operate the industrial plant in the Air Pollution Control Area as notified by the Government and to make discharge of emission from the stacks/chimneys.

This is subject to the provisions of the Act, the rules and the orders made there under and the terms and conditions incorporated under the Special and General conditions stipulated in the Consent Order issued earlier and subject to the special conditions annexed.

**This RENEWAL OF CONSENT is valid for the period ending March 31, 2021**

For Member Secretary,  
Tamil Nadu Pollution Control Board,  
Chennai

**SPECIAL CONDITIONS**

1. This renewal of consent is valid for operating the facility for the manufacture of products (Col. 2) at the rate (Col. 3) mentioned below. Any change in the products and its quantity has to be brought to the notice of the Board and fresh consent has to be obtained.

Sl. No.	Description	Quantity	Unit
<b>Product Details</b>			
1.	Domestic Terminal Built-up Area	68900	sqm
2.	International Terminal Built-up Area	58600	sqm

2. This renewal of consent is valid for operating the facility with the below mentioned emission/noise sources along with the control measures and/or stack. Any change in the emission source/control measures/change in stack height has to be brought to the notice of the Board and fresh consent/Amendment has to be obtained.

<b>I Point source emission with stack :</b>				
Stack No.	Point Emission Source	Air pollution Control measures	Stack height from Ground Level in m	Gaseous Discharge in Nm <sup>3</sup> /hr
1 - 3	DG Set 500 kVA - 3 Nos.	Acoustic enclosures with stack	15	
4 - 11	DG Set 320 kVA - 8 Nos.	Acoustic enclosures with stack	15	
12 - 17	DG Set 250 kVA - 6 Nos.	Acoustic enclosures with stack	15	
18 - 20	DG Set 1010 kVA - 3 Nos	Acoustic enclosures with stack	15	
21 - 22	DG Set 437 kVA - 2 Nos.	Acoustic enclosures with stack	15	
23 - 34	DG Set 1500 kVA - 12 Nos	Acoustic enclosures with stack	30	
<b>II Fugitive/Noise emission :</b>				
Sl. No.	Fugitive or Noise Emission sources	Type of emission	Control measures	
1.	DG Set 500 kVA - 3 Nos.	Noise	Inbuilt Acoustic Enclosure	
2.	DG Set 320 kVA - 8 Nos.	Noise	Inbuilt Acoustic Enclosure	
3.	DG Set 250 kVA - 6 Nos.	Noise	Inbuilt Acoustic Enclosure	
4.	DG Set 1010 kVA - 3 Nos.	Noise	Inbuilt Acoustic Enclosure	
5.	DG Set 437 kVA - 2 Nos.	Noise	Inbuilt Acoustic Enclosure	
6.	DG Set 1500 kVA - 12 Nos.	Noise	Inbuilt Acoustic Enclosure	

**Special Additional Conditions:**

The unit shall install the approved retrofit emission control device/equipment with at least 70% Particulate matter reduction efficiency on all DG sets with capacity of 125 KVA and above or otherwise the unit shall be shift to gas based generators within the time frame prescribed in the notification No. TNPCB/Labs/DD(L)0215/2019 dated 10.06.2020 issued by TNPCB.

**Additional Conditions:**

1. The unit shall operate and maintain the APC measures (Acoustic enclosures with Stack) provided to each DG sets efficiently and continuously so as to meet the standards prescribed by the Board.
2. The unit shall maintain the online continuous ambient noise monitoring provided in the runway.
3. The unit shall conduct AAQ/AM/ANL survey through the Boards lab regularly and furnish report to Board.
4. The unit shall continue and maintain green belt development within the premises to attenuate noise and air pollution.
5. The unit shall adhere to the ANL standards prescribed by the Board.
6. The unit shall not use 'use and throwaway plastics' such as plastic sheets used for food wrapping, spreading on dining table etc., plastic plates, plastic coated tea cups, plastic tumbler, water pouches and packets, plastic straw, plastic carry bag and plastic flags irrespective of thickness, within the industry premises. Instead it shall encourage use of eco friendly alternative such as banana leaf, arecanut palm plate, stainless steel, glass, porcelain plates/cups, cloth bag, Jute bag etc.,
7. The unit shall submit the Environmental statement in Form V for each financial year as prescribed under the Environment (Protection) Act, 1986 as amended.

**For Member Secretary,  
Tamil Nadu Pollution Control Board,  
Chennai**

To  
Joint General Manager,  
M/s.CHENNAI INTERNATIONAL AIRPORT,  
CHENNAI INTERNATIONAL AIRPORT  
MEENAMBAKKAM  
CHENNAI,  
Pin: 600027

**Copy to:**

- 1.The Commissioner, CHENNAI CORPORATION, Alandur Taluk, Chennai District .
2. The District Environmental Engineer, Tamil Nadu Pollution Control Board, MARAIMALAI NAGAR.
3. The JCEE-Monitoring, Tamil Nadu Pollution Control Board, Chennai.
4. File

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\*\* This consent order is computer generated by OCMMS of TNPCB and no signature is needed\*\*



## TAMIL NADU POLLUTION CONTROL BOARD

Category of the Industry :

RED

CONSENT ORDER NO. 2008132052348 DATED: 01/09/2020.

PROCEEDINGS NO.T1/TNPCB/F.1653MMN/RL/MMN/W/2020 DATED: 01/09/2020

**SUB:** Tamil Nadu Pollution Control Board - RENEWAL OF CONSENT – M/s. CHENNAI INTERNATIONAL AIRPORT , S.F.No. 68/1A1A1A1A etc of Pammal, 99/2A1A1B etc of Pozhichalur, 47/2 etc of Pazhavanthangal, 140/1B etc of Cowl Bazaar, 155/1 etc of Nandambakkam, 1468/184 etc of St. Thomas Mount, 22/(242/14) etc of Cont. Pallavaram, 16/1 etc of Meenambakkam, 206/2A2 etc of Kolapakkam, 567/1 etc of Manapakkam Village, MEENAMBAKAAM village, Alandur Taluk and Chennai District - Renewal of Consent for the operation of the plant and discharge of sewage and/or trade effluent under Section 25 of the Water (Prevention and Control of Pollution) Act, 1974 as amended in 1988 (Central Act 6 of 1974) – Issued- Reg.

**REF:** 1. Proceedings No.: T1/TNPCB/F.1653MMN/RL/MMN/W&A/2019dt.11/06/2019  
2. IR.No : F.1653MMN/RL/DEE/MMN/2020 dated 17/06/2020

RENEWAL OF CONSENT is hereby granted under Section 25 of the Water (Prevention and Control of Pollution) Act, 1974 as amended in 1988 (Central Act, 6 of 1974) (hereinafter referred to as "The Act") and the rules and orders made there under to

Joint General Manager

M/s.CHENNAI INTERNATIONAL AIRPORT,

S.F.No. 68/1A1A1A1A etc of Pammal, 99/2A1A1B etc of Pozhichalur, 47/2 etc of Pazhavanthangal, 140/1B etc of Cowl Bazaar, 155/1 etc of Nandambakkam, 1468/184 etc of St. Thomas Mount, 22/(242/14) etc of Cont. Pallavaram, 16/1 etc of Meenambakkam, 206/2A2 etc of Kolapakkam, 567/1 etc of Manapakkam Village, MEENAMBAKAAM village,  
Alandur Taluk,  
Chennai District.

Authorising the occupier to make discharge of sewage and /or trade effluent.

This is subject to the provisions of the Act, the rules and the orders made there under and the terms and conditions incorporated under the Special and General conditions stipulated in the Consent Order issued earlier and subject to the special conditions annexed.

**This RENEWAL OF CONSENT is valid for the period ending March 31, 2021**

For Member Secretary,  
Tamil Nadu Pollution Control Board,  
Chennai

**SPECIAL CONDITIONS**

1. This renewal of consent is valid for operating the facility for the manufacture of products/byproducts (Col. 2) at the rate (Col 3) mentioned below. Any change in the product/byproduct and its quantity has to be brought to the notice of the Board and fresh consent has to be obtained.

Sl. No.	Description	Quantity	Unit
<b>Product Details</b>			
1.	Domestic Terminal Built-up Area	68900	sqm
2.	International Terminal Built-up Area	58600	sqm

2. This renewal of consent is valid for operating the facility with the below mentioned outlets for the discharge of sewage/trade effluent. Any change in the outlets and the quantity has to be brought to the notice of the Board and fresh consent has to be obtained.

Outlet No.	Description of Outlet	Maximum daily discharge in KLD	Point of disposal
<b>Effluent Type : Sewage</b>			
1.	Sewage	2275.0	On land for gardening
<b>Effluent Type : Trade Effluent</b>			

**Additional Conditions:**

1. The unit shall operate and maintain the STP efficiently and continuously so as to achieve the standard prescribed by the Board.
2. The unit shall operate and maintain EMFM at the inlet & outlet of STP and shall maintain log book for the same.
3. The unit shall operate and maintain energy meter provided to the STP and shall maintain log book for the same.
4. The unit shall operate and maintain the UV disinfection provided for the disinfection of treated sewage.
5. The unit shall comply with the E-waste Management Rules, 2016
6. The unit shall comply with the provision of waste Management Rules, 2016 notified under EPA Act 1986.
7. The unit shall not generate any trade effluent.
8. The bio degradable solid waste, non-bio degradable solid waste, STP sludge, etc generated from the project activity shall be properly collected, segregated and disposed as per the provision of solid waste (Management and Handling) Rules, 2016.
9. The unit shall comply with the Hazardous and Other Wastes (Management and Transboundary Movement) Rules, 2016.
10. Construction & Demolition Waste shall be disposed as per the Construction & Demolition Waste Management Rules, 2016 as amended

**For Member Secretary,  
Tamil Nadu Pollution Control Board,  
Chennai**

To  
Joint General Manager,  
M/s.CHENNAI INTERNATIONAL AIRPORT,  
CHENNAI INTERNATIONAL AIRPORT  
MEENAMBAKKAM  
CHENNAI,  
Pin: 600027

**Copy to:**

- 1.The Commissioner, CHENNAI CORPORATION, Alandur Taluk, Chennai District .
2. The District Environmental Engineer, Tamil Nadu Pollution Control Board, MARAIMALAI NAGAR.
3. The JCEE-Monitoring, Tamil Nadu Pollution Control Board, Chennai.
4. File

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F. No. 10-61/2016-IA-III  
Government of India  
Ministry of Environment, Forest and Climate Change  
(IA.III Section)

Indira Paryavaran Bhawan,  
Jor Bagh Road, New Delhi - 3

Date: 26<sup>th</sup> June, 2018

To,

**M/s Airports Authority of India Chennai**  
Chennai Airport Project, Link Building, 2<sup>nd</sup> Floor,  
Chennai Airport, Chennai - 600 016 (Tamil Nadu)  
Email: [srmanne@aai.aero](mailto:srmanne@aai.aero)

**Subject: Modernization of Chennai Airport (Phase-II), Chennai, Tamil Nadu by M/s Airports Authority of India Chennai - Environmental Clearance - reg.**

Sir,

This has reference to your online proposal No. IA/TN/MIS/58639/2016 dated 18<sup>th</sup> May, 2018, submitted to this Ministry for grant of Environmental Clearance (EC) in terms of the provisions of the Environment Impact Assessment (EIA) Notification, 2006 under the Environment (Protection) Act, 1986.

2. The proposal for grant of environmental clearance to the project 'Modernization of Chennai Airport (Phase-II), Chennai, Tamil Nadu by M/s Airports Authority of India Chennai was considered by the Expert Appraisal Committee (Infra-2) in its 31<sup>st</sup> meeting held on 29-30 May, 2018. The details of the project, as per the documents submitted by the project proponent, and also as informed during the above meeting, are under:-

- (i) Airports Authority of India (AAI) took up modernization of Chennai airport during the year 2008 and completed the phase-I modernization during the year 2012.
- (ii) Chennai airport is located at Meenambakkam village, Sriperumbudur, Alandur, Pallavaram tehsil, Kanchipuram district, Tamil Nadu. The airport reference point is located at latitude 12<sup>o</sup>59'41.7"N and longitude 80<sup>o</sup>10'31.8"E at an average field elevation of 20 m above sea level.
- (iii) The environmental clearance for the existing airport has been issued by MoEF&CC vide letter no. 10-140/2007-IA (III) dated 25<sup>th</sup> August, 2008.
- (iv) Terms of Reference (ToR) for the proposal was granted by MoEF&CC vide F.No. 10-61/2016-IA-III, dated 26<sup>th</sup> October, 2016.
- (v) Public hearing for the proposed project was conducted by Tamil Nadu Pollution Control Board, on 25<sup>th</sup> April, 2018 under the supervision of District Collector, who presided over the PH meeting, as per the Environment Impact Assessment Notification dated 14<sup>th</sup> September 2006. Based on the proceedings of the public hearing, the EIA report has been upgraded and submitted for the Environmental Clearance to the Ministry of Environment, Forests and Climate Change, New Delhi.

- (vi) The land in possession by AAI is around 1301.28 acres. Phase-II modernization of Chennai airport project shall include:
- o Demolition and reconstruction of old domestic terminal (T2);
  - o Demolition and reconstruction of old international terminal (T3);
  - o Re-construction of airside corridor for seem-less integration;
  - o Interfacing provision in the new terminal for future connection of tunnel from satellite terminal;
  - o Augmentation of contact bays;
  - o Development of multi-level car park;
  - o Development of integrated common user cargo complex, after demolishing the old unused terminal at Meenambakkam; and
  - o Development of contact bays for category E cargo freighters etc.
- (vii) The passenger capacity after modernization of proposed Chennai airport will be 30 Million Passenger Per Annum (MPPA). Estimated time of completion of the modernization project (Phase-II) is 42 months. The present proposal of modernization of Chennai airport in phase-II by demolishing and reconstructing the existing old domestic and international terminals with additional 16 MPPA (domestic 10 MPPA & international 6 MPPA) and other associated facilities will help in easing out congestion during peak hours in both domestic and international terminals particularly at Immigration area and with the equal distribution of flights in the proposed terminal building (Phase-II) will be able to cater to passenger traffic.
- (viii) Chennai Airport is well connected by the metro rail airport station which lies within the airport premises and also through the National Highway-45 which is 0.1 km away from the airport premises. Suburban rail connectivity is through Trisulam railway station which is 0.3 km away from the airport on SE direction. Guindy National Park is located at a distance of about 3.0 km, SE from Chennai airport boundary and Adyar River passes through the airport in NW side.
- (ix) The proposed modernization project will be carried out within the existing airport premises in an area of 1301.28 acres. Entire land is already under possession of Airports Authority of India (AAI). Hence, no additional land acquisition is involved.
- (x) Total water required after modernization of the terminal and other buildings would be around 4.1 MLD. The required water shall be sourced from municipal supply, treated water & recycled water from STP and existing tube wells within the airport.
- (xi) Presently the waste water is being treated in the existing STP of capacity 2 MLD. The treated water is further purified through tertiary treatment plant. In the course of time, it is expected that the effluent generated will be increasing proportionate to the growth of air traffic and passenger. Foreseeing the future requirement, it has been proposed to construct a sewage treatment plant of capacity 4.1 MLD for treating wastewater from WC's, wash basins, canteen kitchens, and restaurants, etc. The treated wastewater from the STP is used for air conditioning, cooling water make-up and green belt development. No

wastewater will be discharged outside the airport complex. With the proposed treatment system, the impact due to the wastewater generation will be minimized.

- (xii) Solid waste generated from the proposed airport mainly comprises of food waste and garbage waste. Further, small quantities of sludge from STP, medical waste and other waste will be generated. Collection and handling of domestic solid waste would be done in line with the provisions of the Municipal Solid Waste Rules, 2000 (as amended). Bio-degradable waste will be composted and used within the facility for gardening purpose. Remaining waste will be disposed through authorized dealers. Plastic, E-Waste & other metallic waste will be given to authorized dealers.
- (xiii) The total power required for the proposed modernization would be 27.25 MVA of power is being utilized for the various operation of the airport is met from Tamil Nadu Generation & Distribution Corporation.
- (xiv) Baseline monitoring was carried out for four months from 1<sup>st</sup> December 2016 to 31<sup>st</sup> March 2017, representing winter and part of pre-monsoon season of 2016-2017 to determine the existing conditions of various environmental attributes. Ambient air quality parameters were observed to be within prescribed standards and the noise levels in general found within the acceptable levels as per standards prescribed by Central Pollution Control Board. The ground and surface water quality in the study area does not indicate any industrial contamination.
- (xv) CSR: Chennai airport authorities have planned a fund of about Rs. 2 crores for the next financial year 2017-2018 and based on the recommendations made by the committees formed, the fund shall be allocated accordingly.
- (xvi) EMP: It is proposed to invest about Rs.49.52 crores towards pollution control measures. EMP also includes institutional set-up for implementation of various measures, greenbelt development plan and environmental monitoring plan
- (xvii) Investment cost of the modernization project (Phase-II) is about Rs. 2476.00 Crores.
- (xviii) Employment potential: Direct employment of about 350 persons and indirect employment of 800-900 persons is envisaged.
- (xix) Benefits of the project: The present proposal of modernization of Chennai airport in phase-II by demolishing and reconstructing the existing old domestic and international terminals with additional 16 MPPA (domestic 10 MPPA & international 6 MPPA) and other associated facilities will help in easing out congestion during peak hours in both domestic and international terminals particularly at Immigration area and with the equal distribution of flights in the proposed terminal building (Phase-II) will be able to cater to passenger traffic.

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

4. The EAC deliberated upon the issues raised during the Public Hearing/Public Consultation meeting conducted by Tamil Nadu Pollution Control Board, on 25<sup>th</sup> April, 2018. The concerns were raised regarding land acquisition, socio-economic activities, EMP and flood control measures. The Committee noted that issues have

satisfactorily been responded by the project proponent and incorporated in the final EIA-EMP report.

5. The EAC, on being satisfied with the submissions of the project proponent, recommended the project 'Modernization of Chennai Airport (Phase-II)', Chennai, Tamil Nadu by M/s Airports Authority of India Chennai for grant of environmental clearance and stipulated the following specific conditions along with other environmental conditions while considering for accord of environmental clearance:-

**PART A – SPECIFIC CONDITIONS:**

- (i) As proposed, Environmental Clearance is for Modernization of Chennai Airport (Phase-II), Chennai, Tamil Nadu by M/s Airports Authority of India Chennai.
- (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) Construction site should be adequately barricaded before the construction begins.
- (v) 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.
- (vi) 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.
- (vii) The excavation working area should be sprayed with water after operation so as to maintain the entire surface wet.
- (viii) Soil stockpile shall be managed in such a manner that dust emission and sediment runoff are minimised. Ensure that soil stockpiles are designed with no slope greater than 2:1 (horizontal/vertical). Top soil shall be separately stored and used in the development of green belt.
- (ix) A detailed drainage plan for rain water shall be drawn up and implemented.
- (x) Ground water abstraction and rain water recharge shall be as may be prescribed by the CGWA. A clearance of the CGWA shall be obtained in this regards.
- (xi) 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.
- (xii) Where construction activity is likely to cause noise nuisance to nearby residents, restrict operation hours between 7 am to 6 pm.
- (xiii) 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 Management Rules, 2016.

- (xiv) Diesel power generating sets proposed as source of backup power for elevators and common area illumination during operation phase should be of enclosed type and conform to rules made under the Environment (Protection) Act, 1986. The height of stack of DG sets should be equal to the height needed for the combined capacity of all proposed DG sets. Use of low sulphur diesel. The location of the DG sets may be decided with in consultation with State Pollution Control Board.
- (xv) 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.
- (xvi) Proper drainage systems, emergency containment in the event of a major spill during monsoon season etc shall be provided.
- (xvii) 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.
- (xviii) Storm water drains are to be built for discharging storm water from the air-field to avoid flooding/water logging in project area during monsoon season / cloud bursts.
- (xix) Rain water harvesting for roof run-off and surface run-off, as plan submitted should be implemented. Before recharging the surface run off, pre-treatment must be done to remove suspended matter, oil and grease.
- (xx) Total water requirement from Municipal supply and bore wells shall not exceed 4.1 MLD. Groundwater shall only be extracted with permission from CGWA.
- (xxi) Sewage Treatment Plant of 1.5 MLD capacity (in addition to existing 2.0 MLD) based on MBBR Technology shall be provided to treat the wastewater generated from airport. Treated water will be reused for landscaping, horticulture and HVAC purposes. As proposed the Airport will operate on zero liquid discharge principle.
- (xxii) Continuous on line air monitoring system shall be in place for expansion project.
- (xxiii) The project proponent shall implement the following flood control measures as recommended by IIT, Madras :
  - Strengthening the Airport Compound wall to withstand static and dynamic pressure of the water encountered during floods
  - Shall resize and reroute the internal storm water drains to prevent or minimise the surcharging from 1 to 10 year design storms.
  - Shall resize and reroute the external storm water drains from Pallavaram and Pammal area into Adyar river externally to minimise the flooding inside the airport area and simultaneously improving the storm drainage infrastructure outside the airport.

- Adyar river passing through the airport shall be protected without causing any disturbance to the flow and all the measures shall be carried out as per the recommendation of IIT.
- (xxiv) 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.
- (xxv) 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.
- (xxvi) 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.
- (xxvii) 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.
- (xxviii) Traffic Management Study and Mitigation measures as given in the EIA Report shall be implemented in letter and spirit. Apart from the traffic management plan described by the PP against the prescribed, the project proponent in consultation with Ministry of Urban Development, Chennai Metro Rail, CMDA, PWD and NHAI shall review the traffic management plan periodically during construction of the project to satisfy the expanded requirement and Ministry of Civil aviation will be the Nodal Agency for review and coordinate the improved traffic management plan.
- (xxix) Energy conservation measures like installation of LED/CFLs/TFLs for the lighting the areas outside the building should be integral part of the project design and should be in place before project commissioning. Used CFLs and TFLs should be properly collected and disposed off/sent for recycling as per the prevailing guidelines/ rules of the regulatory authority to avoid mercury contamination.
- (xxx) 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.
- (xxxi) The company shall draw up and implement a corporate social Responsibility plan as per the Company's Act of 2013.
- (xxxii) 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.
- (xxxiii) As per the Ministry's Office Memorandum F.No. 22-65/2017-IA.III dated 1<sup>st</sup> May 2018, and proposed by the project proponent, an amount @0.25% of project Cost shall be earmarked under Corporate Environment Responsibility

(CER) for the activities such as infrastructure creation for drinking water supply, sanitation, health, education, skill development, roads, cross drains, electrification including solar power, solid waste management facilities, scientific support and awareness to local farmers to increase yield of crop and fodder, rain water harvesting, soil moisture conservation works, avenue plantation, plantation in community areas. 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.

#### **PART B - GENERAL CONDITIONS**

- (i) The project authorities must strictly adhere to the stipulations made by the SPCB, State Government and any other statutory authority.
  - (ii) No further modification or expansion in the project shall be carried out without prior approval of the Ministry of Environment Forest and Climate Change. In case of deviations or alterations in the project proposal from those submitted to this Ministry for clearance, a fresh reference shall be made to this Ministry to assess the adequacy of conditions imposed and to add additional environmental protection measures required, if any.
  - (iii) The overall noise levels in and around the airport area shall be kept well within the standards by providing noise control measures including acoustic hoods, silencers, enclosures etc. On all the sources of noise generation. The ambient noise levels shall conform to the standards prescribed under the EPA Rules, 1989 viz. 78 dBA (daytime) and 70 dBA (night-time).
  - (iv) A separate Environmental Management Cell equipped with full fledged laboratory facilities must be set up to carry out the environmental management and monitoring functions.
  - (v) Adequate funds shall be earmarked towards capital cost and recurring cost/annum for environment pollution control measures and shall be used to implement to conditions stipulated by the Ministry of Environment, Forest and Climate Change as well as the State Government along with the implementation schedule for all the conditions stipulated herein. The funds so provided shall not be diverted for any other purposes.
6. The Regional Office of this Ministry/Central Pollution Control Board/State Pollution Control Board will monitor the stipulated conditions. A six monthly compliance report and the monitored data along with statistical interpretation shall be submitted to them regularly.
7. A copy of the clearance letter shall be sent by the proponent to concerned Panchayat / Zila Parishad / Municipal Corporation, Urban Local Body and the local NGO, if any, from whom any suggestion/ representation, if any, were received while processing the proposal. The clearance letter shall also be put on the website of the company by the proponent.
8. The project proponent shall also submit six monthly reports on the status of compliance of the stipulated Clearance conditions including results of monitored data

(both in hard copies as well as by e-mail) to the respective Regional Office of MoEF&CC, the respective Zonal Office of CPCB and the SPCB.

9. The environmental statement for each financial year ending 31<sup>st</sup> March in Form-V as is mandated to be submitted by the project proponent to the concerned State Pollution Control Board as prescribed under the Environment (Protection) Rules, 1986, as amended subsequently, shall also be put on the website of the company along with the status of compliance of Clearance conditions and shall also be sent to the respective Regional Office of MoEF&CC by e-mail.

10. The project proponent shall inform the public that the project has been accorded environmental clearance by the Ministry and copies of the clearance letter are available with SPCB and may also be seen at website of the Ministry of Environment, Forest and Climate Change at <http://www.envfor.nic.in>. This shall be advertised within Seven days from the date of receipt of the Clearance letter at least two local newspaper that are widely circulated in the region of which one shall be in the vernacular language of the locality concerned and a copy of the same shall be forwarded to the Regional Office of this Ministry.

11. The project authorities 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 and the date of commencing of land development work

12. The Ministry may revoke or suspend the clearance, if implementation of any of the above conditions is not satisfactory.

13. The Ministry reserves the right to stipulate additional conditions, if necessary. The company in a time bound manner shall implement these conditions.

14. This clearance is subject to final order of the Hon'ble Supreme Court of India in the matter of Goa Foundation Vs Union of India in Writ Petition (Civil) No.460 of 2004 as may be applicable to this project.

15. Any appeal against this clearance shall lie with the National Green Tribunal, if preferred, within a period of 30 days as prescribed under Section 16 of the National Green Tribunal Act, 2010.

16. The above stipulations will be enforced inter-alia under the provisions of the Water (Prevention and Control of Pollution) Act, 1974, the Air (Prevention and Control of Pollution) Act 1981, the Environment (Protection) Act, 1986, Hazardous and Other Wastes (Management and Transboundary Movement) Rules, 2016 and the Public Liability (Insurance) Act, 1991 along with their amendments and rules.

17. This issues with approval of the Competent Authority.

  
(Kushal Vashist)  
Director

**Copy to:**

- 1) The Secretary, Department of Environment, No.1, Jeeris Road, Panagal Building, Ground Floor, Saidapet, Chennai-600 015, Tamil Nadu.