NOIDA INTERNATIONAL AIRPORT LIMITED

OFFICE NO. 1-15 BLOCK P-2-SECTOR OMEGA -1 GREATER NOIDA GAUTAM BUDDHA NAGAR – 201308 (U.P.)

CIN: U62100UP2018SGC107238

LETTER NO.: NIAL/PCCB/2024/739 DATE: 01.10.2024

To,

The Chief Environmental Officer

Building No. TC-12 V, Vibhuti Khand,

Gomti Nagar, Lucknow-226010

Ref: Environment Clearance F.No.10-31/2018-1A-111 dated 09th March 2020

Subject: Submission of the Environmental Statement in the prescribed Form V for the period FY 2023-2024

Dear Sir,

This is with reference to submission of the Environmental Statement, we are hereby submitting the Environmental Statement in the prescribed Form-V for the period of FY 2023-2024 as per the provision of the Environment (Protection) Rules, 1986, as amended subsequently and further as required by Miscellaneous Condition (v) of Environment Clearance.

Kindly consider this for your records and acknowledge our submission.

(Shailendra Kumar Bhatia)
Nodal Officer

Enclosure:

1. Environmental Statement in the prescribed Form V for the period FY 2023-2024
2. Annexure-1 Competency certificate & challans_Apr-2023 to Mar-2024
3. Annexure-2 Test reports of STP for FY 2023-24
4. Annexure-3_DG Stack Emission Monitoring Reports FY 2023-24

01.10.2024

(Shailendra Kumar Bhatia)
Nodal Officer

Environment statement (Form V)
(See Rule14)
Environmental Statement for the Financial Year ending **31st March 2024**

Part A

Name & address of the owner/occupier of the industry operation or process	The Director Directorate of Civil Aviation, Government of Uttar Pradesh Lucknow Airport, Lucknow - 226 009, Uttar Pradesh
Industry category **Primary-(STC Code)** **Secondary-(SIC Code)**	Secondary
Production capacity Units	Batching Plant-1: 70 cum/Hour Batching Plant-2: 70 cum/Hour Batching Plant-3: 60 cum/Hour Batching Plant-4: 160 cum/Hour Batching Plant-5: 140 cum/Hour Hot Mix Plant- 1: 160 cum/Hour Hot Mix Plant-2: 240 cum/Hour Wet Mix Macadam Plant-1: 200 cum/Hour Wet Mix Macadam Plant-2: 200 cum/Hour
Year of Establishment	Project Started from June-2022
Date of Last Environment Statement submitted	29-12-2023 (Submitted for the FY 2022-23)

Part B

Water and Raw material Consumption

i. Water Consumption in M^3/Day:

Sr.	**Water consumption**	**Total Quantity (KLD)**
a	Cooling	No fresh/raw water consumed in Cooling
b	Domestic	Total RO treated water consumption in Drinking Purpose from April-23 to Mar-24= 80.80 KLD
c	Process	No fresh/raw water consumed in Process

Note: No fresh water consumed in cooling, process & other domestic purpose, only STP treated water consumed in Curing, cooling, RMC production & Sprinkling.

Name of the products	Process Water Consumption per Unit of product (m^3)	
	During Previous Financial year 2022-23 (Oct-2022 to Mar-2023)	**During Current Financial year 2023-24**
Ready Mix Concrete WMM CTPB	-	Total 36398 KL STP treated water consumed as process water in Concrete, WMM & CTPB production. • 0.1637 KL Water consumed per Unit of concrete production. • 0.000055 KL Water consumed per Unit of WMM production • 0.000065 KL Water consumed per Unit of CTPB production

ii. Raw Material Consumption

Name of Raw material	Name of Products	Consumption of Raw Material per unit (M3) of output during Current financial year 2023-24 (MT)	
		During Previous Financial year 2022-23 (Oct-2022 to Mar-2023)	**During current financial year 2023-24 (Apr-2023 to Mar-2024)**
Cement	Ready Mix Concrete	**-**	**0.30355**
Flyash		**-**	**0.11827**
Microsilica		**-**	**0.00159**
Aggregate		**-**	**1.00144**
Sand		**-**	**0.80098**
Admixture		**-**	**0.00218**

Name of Raw material	Name of Products	Consumption of Raw Material per unit of output during Current financial year 2023-24 (MT/m^3)	
		During Previous Financial year 2022-23 (Oct-2022 to Mar-2023)	**During current financial year 2023-24 (Apr-2023 to Mar-2024)**
Cement	WMM	**-**	
Flyash		**-**	
Microsilica		**-**	
Aggregate		**-**	**0.66150**
Sand		**-**	**0.28350**
Admixture		**-**	

Name of Raw material	Name of Products	Consumption of Raw Material per unit of output during Current financial year 2023-24 (MT/m^3)	
		During Previous Financial year 2022-23 (Oct-2022 to Mar-2023)	During current financial year 2023-24 (Apr-2023 to Mar-2024)
Cement	CTPB	-	**0.01870**
Flyash		-	
Microsilica		-	
Aggregate		-	**0.91630**
Sand		-	
Admixture		-	

Name of Raw material	Name of Products	Consumption of Raw Material per unit of output during Current financial year 2023-24 (MT/m^3)	
		During Previous Financial year 2022-23 (Oct-2022 to Mar-2023)	During current financial year 2023-24 (Apr-2023 to Mar-2024)
VG40	Asphalt Mix Design	-	**0.03794**
VG30		-	**0.00324**
PMB		-	**0.00328**
Aggregate		-	**0.60450**
Sand		-	**0.35104**

Part C

Pollution discharged to Environment/unit of output (Parameter as specified in the consent issued)

A. <u>Water pollution load:</u>

Municipal solid waste disposal, sewage water disposal is attached as **Annexure-1.**

Sr. No	Pollutants	Quantity of Pollutants discharged (mass/day) (Kg/day)	Concentration of pollutants in discharge (Mass/volume) (mg/L), except pH	% of variation from prescribed standards with reasons	Disposal method
1	pH		7.98	STP Sample Test Report attached as **Annexure-2.**	STP Treated water is being used for sprinkling purpose at
2	Total Suspended Solids	3968.22	41.5		
3	COD	10118.25	105.8		
4	BOD	2106.66	22.03		

5	Oil and grease	420.73	<5.0		the project site

B. <u>Air pollution load</u>

B1: Stack Emission from DG Set No. 1 (Capacity in 62.5 KVA)

Sr. No	Pollutants	Quantity of Pollutants discharged (mass/day) (g/day)	Concentration of pollutants in discharge (Mass/volume) (g/KWH)	% of variation from prescribed standards with reasons
1	Particulate matter	36.63	0.11	No deviation from prescribed standards, Sample Monitoring Reports attached as **Annexure-3**
2	Sulphur Dioxide	54.90	0.17	
3	Carbon Monoxide	193.69	0.60	
4	Nitrogen Dioxide	157.42	0.49	

B2: Stack Emission from DG Set No. 2 (Capacity in 250 KVA)

Sr. No	Pollutants	Quantity of Pollutants discharged (mass/day) (g/day)	Concentration of pollutants in discharge (Mass/volume) (g/KWH)	% of variation from prescribed standards with reasons
1	Particulate matter	16.07	0.11	No deviation from prescribed standards, Sample Monitoring Reports attached as **Annexure-3**
2	Sulphur Dioxide	20.69	0.14	
3	Carbon Monoxide	97.97	0.68	
4	Nitrogen Dioxide	83.58	0.58	

B3: Stack Emission from DG Set No. 3 (Capacity in 82.5 KVA)

Sr. No	Pollutants	Quantity of Pollutants discharged (mass/day) (g/day)	Concentration of pollutants in discharge (Mass/volume) (g/KWH)	% of variation from prescribed standards with reasons
1	Particulate matter	55.02	0.12	No deviation from prescribed standards, Sample Monitoring Reports attached as **Annexure-3**
2	Sulphur Dioxide	25.98	0.06	
3	Carbon Monoxide	310.25	0.68	
4	Nitrogen Dioxide	253.70	0.55	

D.

B4: Stack Emission from DG Set No. 4 (Capacity in 125 KVA)

Sr. No	Pollutants	Quantity of Pollutants discharged (mass/day) (g/day)	Concentration of pollutants in discharge (Mass/volume) (g/KWH)	% of variation from prescribed standards with reasons
1	Particulate matter	26.21	0.13	No deviation from prescribed standards, Sample Monitoring Reports attached as **Annexure-3**
2	Sulphur Dioxide	18.65	0.09	
3	Carbon Monoxide	122.03	0.58	
4	Nitrogen Dioxide	96.72	0.46	

B5: Stack Emission from DG Set No. 5 (Capacity in 180 KVA)

Sr. No	Pollutants	Quantity of Pollutants discharged (mass/day) (g/day)	Concentration of pollutants in discharge (Mass/volume) (g/KWH)	% of variation from prescribed standards with reasons
1	Particulate matter	2.80	0.13	No deviation from prescribed standards, Sample Monitoring Reports attached as **Annexure-3**
2	Sulphur Dioxide	1.52	0.07	
3	Carbon Monoxide	7.81	0.35	
4	Nitrogen Dioxide	6.95	0.32	

B6: Stack Emission from DG Set No. 6 (Capacity in 500 KVA)

Sr. No	Pollutants	Quantity of Pollutants discharged (mass/day) (g/day)	Concentration of pollutants in discharge (Mass/volume) (g/KWH)	% of variation from prescribed standards with reasons
1	Particulate matter	4.86	0.12	No deviation from prescribed standards, Sample Monitoring Reports attached as **Annexure-3**
2	Sulphur Dioxide	3.89	0.10	
3	Carbon Monoxide	21.99	0.55	
4	Nitrogen Dioxide	18.30	0.46	

B7: Stack Emission from DG Set No. 7 (Capacity in 30 KVA)

Sr. No	Pollutants	Quantity of Pollutants discharged (mass/day) (g/day)	Concentration of pollutants in discharge (Mass/volume) (g/KWH)	% of variation from prescribed standards with reasons
1	Particulate matter	56.91	0.16	No deviation from prescribed standards, Sample Monitoring Reports attached as **Annexure-3**
2	Sulphur Dioxide	37.35	0.11	
3	Carbon Monoxide	225.88	0.64	
4	Nitrogen Dioxide	149.40	0.42	

Part D

Hazardous Wastes

[As specified under Hazardous and Other Wastes (Management and Transboundary Movement) Rules, 2016]

Hazardous Waste	Total Quantity disposed (MT)		
	Name of the process waste	**During Previous Financial Year 2022-23**	**During Current Financial Year 2023-24**
From Process	Not Applicable	Not Applicable	Not Applicable
From Pollution Control Facilities	Not Applicable	Not Applicable	Not Applicable
Other	Used or spent oil	Nil	4.9210

Note: As project execution started from June-2022, all allocated vehicles/equipment were new & hired hence no used oil & oil contaminated waste generated from the newly hired vehicles/equipment at project site during the period FY 2022-23..

Biomedical Waste

[As specified under Biomedical Waste Management Rules 2016]

Biomedical Waste	**Total Quantity disposed (MT)**		
	Name of the process waste	**During Previous Financial Year 2022-23**	**During Current Financial Year 2023-24**
From Process	Not Applicable	Not Applicable	Not Applicable
From Pollution Control Facilities	Not Applicable	Not Applicable	Not Applicable
Other	**Biomedical Waste**		
	Red Category	-	98.37
	White Category	-	6.29
	Yellow Category	-	114.515
	Blue Category	-	34.627

Part E

Solid Wastes

Solid Waste	**Total Quantity disposed (MT)**	
	During Previous Financial Year 2022-23	**During Current Financial Year 2022-23**
a) From Process	Not Applicable	Not Applicable
b) From Pollution Control Facilities	Not Applicable	Not Applicable
c) (1) Quantity recycled or re-utilized with in the unit	Not Applicable	Not Applicable
(2) Sold	Not Applicable	Not Applicable
(3) Disposed		
Municipal Solid Waste	74	1082.595

Note: *Municipal solid waste is being disposed on regular basis to the authorized & competent agency i.e. Sindhu Hygiene & Enviro Products Private Limited.*

Non-biodegradable solid waste, metal scrap, plastics etc, disposed to scrap buyers/authorised agencies. Authorisation & sample challans are enclosed as ***Annexure-1***

Part F

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

Name of the process waste	Quantity Financial Year (2023-24) in MT	Disposal
Hazardous Waste- Used or spent oil	5.9185	4.9210
Municipal Solid Waste	1082.595	1082.595

Part G

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

The environmental parameters, namely Ambient Air Quality, Ambient Noise Level, Surface Water Quality, Ground Water Quality, Wastewater Quality, Drinking Water Quality, Soil Quality, and DG Stack Emissions, are monitored through the NABL accredited agency M/s Vardan. Water Quality, DG Stack Emissions, and Noise are monitored on a monthly basis. Ambient Air Quality Monitoring is conducted fortnightly at 15 locations, including 11 within the project boundary and 4 outside. Monitoring reports, along with compliance reports of CTE, EC conditions, and CTO conditions of RMC, WMM, and HMP, are regularly submitted to the concerned authorities.

Pollution control measures implemented at the NIA project site include:

1. Reducing carbon footprint by using alternate materials such as M-sand and Fly-ash/GGBS in civil construction activities.
2. Increasing usage of precast elements, Prefab, and Steel Structuring for temporary facilities to reduce wastage and improve resource efficiency.
3. Developing and establishing a dust mitigation plan for the project.
4. Deploying water tankers for dust suppression through water sprinkling on roads and transit areas.
5. Installing Automized Mist Guns for effective Dust Control.
6. Developing paved roads and using tractor-mounted mechanized Brooming Machines for daily road cleaning.

7. Handling and transporting all excavated materials in semi-wet conditions, covered/protected by tarpaulin or green net to prevent dust generation.
8. Covering/protecting all construction materials with green net/tarpaulin to prevent dust generation.
9. Conducting manual sprinkling during loading, unloading, and material shifting activities.
10. Installing Dust Control Devices in all batching plants.
11. Installing dust collectors and bag filters for collecting fly ash from silos, with water sprinklers at storage bins of RMC plant for dust suppression.
12. Providing covered conveyor belts for raw material feeding at batching plants.
13. Installing 10-meter height sheet covering around the boundary of batching plants, with intensive plantation along the boundary in progress.
14. Providing three-sided covered construction material storage bins with water sprinklers on top to prevent fugitive dust emissions.
15. Installing 02 No's wheel wash facility near the parking area of the project site.
16. Providing dust masks to all workers to reduce dust inhalation.
17. Ensuring mandatory PUC certificates for vehicles, with random checks carried out.
18. Initiating measures to curtail water consumption by using curing compound, nanogen-based admixtures, and adopting curing pump synchronization.
19. Installing sedimentation tanks for washing TMs and concrete wash, with reuse of water for mixing raw materials.
20. Using STP treated water in RMC production process, raw material mixing, curing, and water sprinkling.
21. Establishing a waste segregation system into Wet, Dry, and Hazardous waste streams.
22. Developing designated storage locations for Hazardous Waste and C&D waste as per norms, and engaging authorized agencies for disposal of Bio-medical waste and Hazardous waste.
23. Procuring Oil Spill Kits for effective spill control measures.
24. Promoting reuse of waste concrete in making paver blocks, pathways, crash barriers, flowerpots, and temporary structures for site utilities.
25. Allotting dedicated Topsoil storage areas at various project site locations, with green net barricading and proper 1:2 sloping (vertical/horizontal).
26. Developing Greenbelts with native species in designated areas at the project site and its surroundings.
27. Establishing an Environment Cell with qualified personnel.
28. Conducting regular reviews of EMP implementation and environmental aspects at the highest level.

Part H

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

1. Project has initiated preparation for IGBC certification for Passenger Terminal Building, NIA Campus and Office Building West Building under Platinum & Gold Categories.
2. Project has certified for ISO 14001: 2015 & ISO 45001:2018 Certification and successfully completed Stage-1 & Stage-2 Audits conducted by the certification firm TUV India.
3. Augmentation of mechanized dust suppression with additional water tankers for road sprinkling, additional heavy-duty automized mist guns, installed portable rain guns at construction sites & introduced advanced water tanker having more sprinkling coverage in 3 directions.
4. Installation of Bio-digester completed to utilize food waste & generate Biogas for utilizing the same in cooking purpose.
5. Installation of Organic Waste Converted is under process to generate manure from food waste.
6. Switching from DG to Grid electricity/ Solar energy/Hybrid Energy,
7. Noida International Airport has been recognized for excellence in airport design and construction at the prestigious Geosmart Infrastructure 2023 by Hon'ble MoS General V K Singh. Additionally, the airport has received multiple accolades including the Global Environment Award 2024 by the Global Environment Excellence Foundation and the Award for Sustainability at the Build India Infra Awards 2024, presented by Shri Nitin Gadkari.

Part I

Any other particulars in respect of Environmental protection and abatement of pollution.

1. Conducting Environment Mock Drill, EHS awareness training programs to employees & workmen periodically and displaying posters, sign boards in the prominent location of workplaces.
2. Project has provided Environment Information Display Board as per the direction of pollution control board at the main gate of the Noida International Airport Project Site.
3. Project has placed digital board for continuous display of Ambient Air Quality Monitoring Parameters.
4. Upgrading our fleet with BS- IV to above rated Engines such as BS- VI, Adopting energy efficient appliances i.e VFD in Tower cranes, uses GPS tracking system for monitoring working hours & diesel consumption.

5. Adopting auto on-off System of Street Lights.
6. Project organised housekeeping drives, plantation drives, plastic segregation drive time to time for mass Environmental awareness.
7. Conducting motivational programs on regular basis to reward Environment Conscious Personnel.