

**HALF YEARLY COMPLIANCE REPORT FOR ENVIRONMENTAL CLEARANCE
(DECEMBER 2022 – JUNE 2023)**

**FOR
PROPOSED CONSTRUCTION OF INTEGRATED BUS TERMINUS CUM COMMERCIAL
COMPLEX**

**PROJECT PROPONENT: M/s. NAVI MUMBAI MUNICIPAL TRANSPORT
BEAPUR BHAVAN, 8th Floor, SECTOR 11,
CBD Belapur, Navi Mumbai
Maharashtra – 400614.**

**PROJECT LOCATION: VASHI BUS DEPOT
Plot No.3, Sector – 9A,
Vashi Navi Mumbai
Maharashtra – 400703.**

SUBMISSION FOR

**Ministry of Environment, Forest & Climate Change
(MoEFCC)**

**SUBMITTED BY
M/s. NAVI MUMBAI MUNICIPAL TRANSPORT
JUNE 2023**

HALF YEARLY COMPLIANCE REPORT FOR ENVIRONMENTAL CLEARANCE
(DECEMBER 2022 – JUNE 2023)
PROPOSED CONSTRUCTION OF INTEGRATED BUS TERMINUS CUM COMMERCIAL
COMPLEX AT PLOT No.3, SECTOR – 9A, VASHI NAVI MUMBAI, MAHARASHTRA - 400703.

TABLE OF CONTENTS

Sl.No.	Contents	
Chapter 1	Introduction and Project Description	
1.1	Introduction	
1.2	Project Description	
1.3	Present Status	
1.4	Purpose of Report	
Chapter 2	Compliance of Stipulated Conditions of Environmental Clearance	
Part A	Specific Conditions	
Part B	General Conditions	
Chapter 3	Details of Environmental Monitoring	
3.1	Ambient Air Quality Monitoring	
3.1.1	Ambient Air Quality Monitoring Stations	
3.1.2	Ambient Air Quality Monitoring Methodology	
3.1.3	Ambient Air Quality Monitoring Results	
3.2	Ambient Noise Monitoring	
3.2.1	Ambient Noise Monitoring Locations	
3.2.2	Methodology of Noise Monitoring	
3.2.3	Ambient Noise Monitoring Results	
3.2.4	Discussion on Ambient Noise Levels in the Study Area	
3.3	Groundwater Quality Monitoring	
3.4	Soil Monitoring	
3.4.1	Soil Monitoring Locations	
3.4.2	Methodology of Soil Monitoring	
3.4.3	Soil Monitoring Results	
3.4.4	Discussion on Soil Characteristics in the Study Area	
Chapter 4	REPORTS	
	Test Report -Ambient Air Quality Monitoring	
	Certificate of Analysis -Ambient Noise Monitoring	
	Certificate of Analysis -Soil Monitoring	
	Certificate of Analysis - DG Set Noise Level Measurement	
	Certificate of Analysis – For Stack Emission	

TABLE OF CONTENTS

Sl.No.	Contents	
Chapter 5	Back up Documents	
1	Copy of NOC - Thane Creek Flamingo Sanctuary	
2	Copy of Work Order to by Electric Buses under CER Plan	
3	Copy of Report of AAQM modelling study submitted	
4	Copy of CER Plan submitted to Municipal Commissioner & Copy of Acknowledgement	
6	Copy of CER Plan Approved by Municipal Commissioner	
7	Copy of Environment Clearance issued by SEIAA	
8	Copy of Newspaper advertisement – English	
9	Copy of Newspaper advertisement – Marathi	
10	Copy of MPCB Approval	
11	Copy of MPCB Form V	

CHAPTER-1

INTRODUCTION AND PROJECT DESCRIPTION

1.1 INTRODUCTION

Proposed Project, " Proposed Construction of Integrated Bus Terminus Cum Commercial Complex at Plot No.3, Sector 9 A, Vashi, Navi Mumbai, Maharashtra 400703 is being developed by M/s Navi Mumbai Municipal Transport and the of the project have been approved by NMMC ADTP.

This project has been granted environmental clearance vide letter Dated November 7, 2019 - SEIAA -EC-0000002069 by the State Environment Impact Assessment Authority, Maharashtra.
Copy of EC is enclosed in Annexure.

1.2 PROJECT DESCRIPTION

Table 1.1: Brief Description of project

Sl. No.	Description Details	Unit
1	Plot Area	10373.42 Sq.Mt
2	Proposed Built Up Area	47635.20 Sq.Mt
3	Total Water Requirement	138.8KLD
4	Fresh Water Demand	93KLD
5	Total Wastewater Generated	118KLD
6	Capacity of STP	125KLD
7	Total Power Requirement	3563.57KW
8	No. of RWH Pits	03
9	Solid Waste Generation	519.33
10	Total Parking	420 Nos
11	Total No of Towers	01
12	No of Floors	21 FLOORS
13	Height of tower	90Mtr

1.3 PRESENT STATUS

Project is in construction phase.

1.4 PURPOSE OF THE REPORT

This six-monthly report is being submitted as per the condition stipulated in the Environmental Clearance letter. Further, the study will envisage the environmental impacts that have generated in the local environment due to the project.

The environmental assessment is being carried out to verify: -

- That the project does not have any adverse environmental impacts in the project area and its surrounding
- Compliance with the conditions stipulated in the Environmental Clearance Letter.
- The Project Management is implementing the environmental mitigation measures as suggested in the approved Form-1, Form-1A, Environmental Management Plan (EMP) and building plans.
- The project proponent is implementing the environmental safeguards in true spirit.
- Any non-conformity in the project with respect to the environmental implication of the project.

CHAPTER-2**COMPLIANCE OF STIPULATED CONDITIONS OF ENVIRONMENTAL CLEARANCE****Name of Project:** PROPOSED CONSTRUCTION OF INTEGRATED BUS TERMINUS CUM COMMERCIAL COMPLEX**Clearance No.:** SEIAA -EC-0000002069 Dated November 7, 2019.**Period of compliance Report:** DECEMBER 2023 – JUNE 2023

Sr No	Environment Clearance Conditions	Compliances Status
	Specific Conditions:	
I	The PP to get NOC from Competent authority with reference to Thane Creek flamingo sanctuary if the project site falls within 10KM radius from the said sanctuary boundary. The planning Authority to ensure fulfilment of this condition before granting CC.	Condition was noted for the compliance. Flamingo. NOC Received post 60th meeting held at NBWL; NOC for Wildlife (Flamingo) received on 1st February 2021. (Copy Enclosed)
II	PP to explore the possibility to buy electric buses under CER activity.	Condition has been noted for the compliance and process has been initiated for purchasing 30 Electric Buses along with chargers (Copy Enclosed)
PIII	PP to submit report of AAQM modelling study	Condition has been noted for the compliance and AAQM modelling study report has been submitted on 13/08/2019. (Copy Enclosed)
IV	PP to submit CER Plan to Municipal commissioner, and submit the acknowledgement copy to Member Secretary, SEIAA	Condition has been noted for the compliance and CER Plan submitted to Municipal commissioner and acknowledgement copy submitted to Member Secretary, SEIAA on 13/08/2019. (Copy Enclosed)
V	PP to ensure that CER plan get approved from Municipal Commissioner/District Collector	Condition has been noted for the compliance and Complied (Copy Attached)
VI	PP shall comply to standard EC conditions mentioned in the Office Memorandum issued by MoEF & CC vide F.No.22-34/2018-IA.III dt.04.01.2019	Condition has been noted for the compliance and has been complied.
VII	SEIAA decided to grant EC for - FSI:15560.13m2, Non FSI:32280.09m2 & Total BUA:47815.81m2. IOD no.NMMC/TPO/ADTP/3881/2018, Approval Date-27.09.2018	Condition has been noted for the compliance and has been complied.

Sr No	Environment Clearance Conditions	Compliances Status
	General Conditions:	
I	E-waste shall be disposed through Authorized vendor as per E-waste (Management and Handling) Rules, 2016.	Condition has been noted for the compliance. There is no E- Waste generated at the project site.
II	The Occupancy Certificate shall be issued by the Local Planning Authority to the project only after ensuring sustained availability of drinking water, connectivity of sewer line to the project site and proper disposal of treated water as per environmental norms.	Condition has been noted for the compliance
III	This environmental clearance is issued subject to obtaining NOC from Forestry & Wildlife angle including clearance from the standing committee of the National Board for Wildlife as if applicable & this environment clearance does not necessarily implies that Forestry & Wild life clearance granted to the project which will be considered separately on merit.	NOT APPLICABLE
IV	PP has to abide by the conditions stipulated by SEAC& SEIAA.	Condition has been noted for the compliance and complied accordingly.
V	The height, Construction built up area of proposed construction shall be in accordance with the existing FSI/FAR norms of the urban local body & it should ensure the same along with survey number before approving layout plan & before according to commencement certificate to proposed work. Plan approving authority should also ensure the zoning permissibility for the proposed project as per the approved development plan of the area.	Condition has been noted for the compliance and has been complied.
VI	If applicable Consent for Establishment" shall be obtained from Maharashtra Pollution Control Board under Air and Water Act and a copy shall be submitted to the Environment department before start of any construction work at the site.	Condition has been noted for the compliance and has been complied. (Copy Attached)
VII	All required sanitary and hygienic measures should be in place before starting construction activities and to be maintained throughout the construction phase.	Condition has been noted for the compliance and has been complied.

VIII	Adequate drinking water and sanitary facilities should be provided for construction workers at the site. Provision should be made for mobile toilets. The safe disposal of wastewater and solid wastes generated during the construction phase should be ensured.	Condition has been noted for the compliance and has been complied.
IX	The solid waste generated should be properly collected and segregated. dry/inert solid waste should be disposed off to the approved sites for land filling after recovering recyclable material.	Condition has been noted for the compliance and has been complied.
X	Disposal of muck during construction phase should not create any adverse effect on the neighbouring communities and be disposed taking the necessary precautions for general safety and health aspects of people, only in approved sites with the approval of competent authority.	Condition has been noted for the compliance and has been complied.
XI	Arrangement shall be made that wastewater and storm water do not get mixed.	Condition has been noted for the compliance.
XII	All the topsoil excavated during construction activities should be stored for use in horticulture / landscape development within the project site.	Condition has been noted for the compliance and has been complied.
XIII	Additional soil for levelling of the proposed site shall be generated within the sites (to the extent possible) so that natural drainage system of the area is protected and improved.	Condition has been noted for the compliance and has been complied.
XIV	Green Belt Development shall be carried out considering CPCB guidelines including selection of plant species and in consultation with the local DFO/ Agriculture Dept.	Condition has been noted for the compliance.
XV	Soil and ground water samples will be tested to ascertain that there is no threat to ground water quality by leaching of heavy metals and other toxic contaminants.	Condition has been noted for the compliance;
XVI	Construction spoils, including bituminous material and other hazardous materials must not be allowed to contaminate watercourses and the dumpsites for such material must be secured so that they should not leach into the ground water.	Condition has been noted for the compliance and has been complied.
XVII	Any hazardous waste generated during construction phase should be disposed off as per applicable rules and norms with necessary approvals of the Maharashtra Pollution Control Board.	Condition has been noted for the compliance.

XVIII	The diesel generator sets to be used during construction phase should be low sulphur diesel type and should conform to Environments (Protection) Rules prescribed for air and noise emission standards.	Condition has been noted for the compliance and has been complied.
XIX	The diesel required for operating DG sets shall be stored in underground tanks and if required, clearance from concern authority shall be taken.	Condition was noted for the compliance. Diesel is bought in barrels as and when required.
XX	Vehicles hired for bringing construction material to the site should be in good condition and should have a pollution check certificate and should conform to applicable air and noise emission standards and should be operated only during non-peak hours.	Condition was noted for the compliance and records maintained
XXI	Ambient noise levels should conform to residential standards both during day and night. Incremental pollution loads on the ambient air and noise quality should be closely monitored during construction phase. Adequate measures should be made to reduce ambient air and noise level during construction phase, so as to conform to the stipulated standards by CPCB/MPCB.	Condition has been noted for the compliance. And test conducted regularly.
XXIII	Fly ash should be used as building material in the construction as per the provisions of Fly Ash Notification of September 1999 and amended as on 27th August, 2003. (The above condition is applicable only if the project site is located within the 100Km of Thermal Power Stations).	NOT APPLICABLE
XXIII	Ready mixed concrete must be used in building construction,	Condition was noted for the compliance and complied accordingly.
XXIV	Storm water control and its re-use as per CGWB and BIS standards for various applications.	Condition has been noted for the compliance and provisions considered.
XXV	Water demand during construction should be reduced by use of pre-mixed concrete, curing agents and other best practices referred.	Condition was noted for the compliance and complied by using Ready Mix Concrete
XXVI	The ground water level and its quality should be monitored regularly in consultation with Ground Water Authority.	NOT APPLICABLE AS NO BORE WELL AT PROJECT SITE

XXVII	The installation of the Sewage Treatment Plant (STP) should be certified by an independent expert and a report in this regard should be submitted to the MPCB and Environment department before the project is commissioned for operation. Discharge of this unused treated effluent, if any should be discharge in the sewer line. Treated effluent emanating from STP shall be recycled/refused to the maximum extent possible. Discharge of this unused treated effluent, if any should be discharge in the sewer line. Treatment of 100% gray water by decentralized treatment should be done. Necessary measures should be made to mitigate the odour problem from STP.	Condition has been noted for the compliance.
XXVIII	Permission to draw ground water and construction of basement if any shall be obtained from the competent Authority prior to construction/operation of the project.	Condition has been noted for the compliance. There is No Bore / Well at project site.
XXIX	Separation of gray and black water should be done by the use of dual plumbing line for separation of gray and black water.	Condition has been noted for the compliance.
XXX	Fixtures for showers, toilet flushing, and drinking should be of low flow either by use of aerators or pressure reducing devices or sensor-based control.	Condition has been noted for the compliance.
XXXI	Use of glass may be reduced up to 40% to reduce the electricity consumption and load on air conditioning. If necessary, use high quality double glass with special reflective coating in windows.	Condition has been noted for the compliance.
XXXII	Roof should meet prescriptive requirement as per Energy Conservation Building Code by using appropriate thermal insulation material to fulfill requirement.	Condition has been noted for the compliance.

XXXIII	Energy conservation measures like installation of CFLs /TFLs for the lighting the areas outside the building should be integral part of the project design and should be in place before project commissioning. Use CFLs and TFLs should be properly collected and disposed off/sent for recycling as per the prevailing guidelines/rules of the regulatory authority to avoid mercury contamination. Use of solar panels may be done to the extent possible like installing solar street lights, common solar water heaters system. Project proponent should install, after checking feasibility, solar plus hybrid non-conventional energy source as source of energy.	Condition has been noted for the compliance.
XXXIV	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 low sulphur diesel. The location of the DG sets may be decided with in consultation with Maharashtra Pollution Control Board.	Condition has been noted for the compliance,
XXXV	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.	Condition has been noted for the compliance and complied accordingly.
XXXVI	Traffic congestion near the entry and exit points from the roads adjoining the proposed project site must be avoided. Parking should be fully internalized and no public space should be utilized.	Condition has been noted for the compliance and complied accordingly.
XXXVII	Opaque wall should meet prescriptive requirement as per Energy Conservation Building Code, which is proposed to be mandatory for all air-conditioned spaces while it is aspiration for non-air-conditioned spaces by use of appropriate thermal insulation material to fulfill requirement,	Condition has been noted for the compliance.
XXXVIII	The building should have adequate distance between them to allow movement of fresh air and passage of natural light, air and ventilation.	Condition has been noted for the compliance and complied accordingly.

XXXIX	Regular supervision of the above and other measures for monitoring should be in place all through the construction phase, so as to avoid disturbance to the surroundings.	Condition has been noted for the compliance and complied accordingly
XL	Under the provisions of Environment (Protection) Act, 1986, legal action shall be initiated against the project proponent if it was found that construction of the project has been started without obtaining environmental clearance.	Condition has been noted for the compliance.
XLI	Six monthly monitoring reports should be submitted to the Regional office MoEF, Bhopal with copy to this department and MPCB.	Condition has been noted for the compliance.
XLII	Project proponent shall ensure completion of STP, MSW disposal facility, green belt development prior to occupation of the buildings. As agreed during the SEIAA meeting, PP to explore possibility of utilizing excess treated water in the adjacent area for gardening before discharging it into sewer line. No physical occupation or allotment will be given unless all above said environmental infrastructure is installed and made functional including water requirement in Para 2. Prior certification from appropriate authority shall be obtained.	Condition has been noted for the compliance.
XLIII	Wet garbage should be treated by Organic Waste Converter and treated waste (manure) should be utilized in the existing premises for gardening. And, no wet garbage will be disposed outside the premises. Local authority should ensure this.	Condition has been noted for the compliance.
XLIV	Local body should ensure that no occupation certification is issued prior to operation of STP/MSW site etc. with due permission of MPCB.	Condition has been noted for the compliance.
XLV	A complete set of all the documents submitted to Department should be forwarded to the Local authority and MPCB.	Condition has been noted for the compliance and complied.
XLVI	In the case of any change(s) in the scope of the project, the project would require a fresh appraisal by this Department.	Condition has been noted for the compliance. No Change in Scope of work.
XLVII	A separate environment management cell with qualified staff shall be set up for implementation of the stipulated environmental safeguards.	Condition has been noted for the compliance.

XLVIII	Separate funds shall be allocated for implementation of environmental protection measures/EMP along with item-wise break-up. These cost shall be included as part of the project cost. The funds earmarked for the environment protection measures shall not be diverted for other purposes and year-wise expenditure should reported to the MPCB & this department.	Condition has been noted for the compliance and complied accordingly.
XLIX	The project management shall advertise at least in two local newspapers widely circulated in the region around the project, one of which shall be in the Marathi language of the local concerned within seven days of issue of this letter, informing that the project has been accorded environmental clearance and copies of clearance letter are available with the Maharashtra Pollution Control Board and may also be seen at Website at http://ec.maharashtra.gov.in .	Condition has been noted for the compliance and has been complied (Copy Enclosed)
L	Project management should submit half yearly compliance reports in respect of the stipulated prior environment clearance terms and conditions in hard & soft copies to the MPCB & this department, on 1st June & 1st December of each calendar year.	Condition has been noted for the compliance.
LI	A copy of the clearance letter shall be sent by proponent to the concerned Municipal Corporation and the local NGO, if any, from whom suggestions/representations, if any, were received while processing the proposal. The clearance letter shall also be put on the website of the Company by the proponent.	Condition has been noted for the compliance.
LII	The proponent shall upload the status of compliance of the stipulated EC conditions, including results of monitored data on their website and shall update the same periodically. It shall simultaneously be sent to the Regional Office of MoEF, the respective Zonal Office of CPCB and the SPCB. The criteria pollutant levels namely; SPM, RSPM, SO ₂ , NO _x (ambient levels as well as stack emissions) or critical sector parameters, indicated for the project shall be monitored and displayed at a convenient location near the main gate of the company in the public domain.	Condition has been noted for the compliance.

LIII	The project proponent shall also submit six monthly reports on the status of compliance of the stipulated EC conditions including results of monitored data (both in hard copies as well as by e-mail) to the respective Regional Office of MoEF, the respective Zonal Office of CPCB and the SPCB.	Condition has been noted for the compliance.
LIV	The environmental statement for each financial year ending 31st March in Form-V as is mandated to be submitted by the project proponent to the concerned State Pollution Control Board as prescribed under the Environment (Protection) Rules, 1986, as amended subsequently, shall also be put on the website of the company along with the status of compliance of EC conditions and shall also be sent to the respective Regional Offices of MoEF by e-mail.	Condition has been noted for the compliance.

CHAPTER-3

DETAILS OF ENVIRONMENTAL MONITORING

3.1 AMBIENT AIR QUALITY MONITORING

3.1.1 Ambient Air Quality Monitoring Stations

Ambient air quality monitoring has been carried out at one location at the Project in the month of March 2022 site to assess the ambient air quality. This will enable to have a comparative analytical understanding about air quality and the changes in the air environment in the study area with respect to the condition prevailing. The location of the ambient air quality monitoring stations was taken at North West Corner of the plot.

The sampler was placed near the site office and was free from any obstructions. Surroundings of the sampling site represent residential environmental setting.

3.1.2 Ambient Air Quality Monitoring Methodology

Monitoring was conducted in respect of the following parameters:

PARAMETER	METHOD
Particulate Matter ($PM_{2.5}$)	Gravimetric method (CPCB guidelines 2012, NAAQS Volume -I)
Particulate Matter (PM_{10})	IS 5182 (Part-23):2006, Reaffirmed -2017
Sulphur Dioxide (SO_2)	IS 5182 (Part-02):2006, Reaffirmed -2017
Nitrogen Dioxide (NO_2)	IS 5182 (Part-06):2006, Reaffirmed -2017
Ammonia (NH_3)	Indophenol Blue method 4. 1 (CPCB guidelines 201 2, NAAQS Volume-I)
Carbon Monoxide (CO)	IS 5182(Part-10): 1999, Reaffirmed -2009
Benzene(C_6H_6)	IS 5182(Part-11): 2006
Ozone (O_3)	Chemical Method (NAAQS Volume-I)

Lead (Pb)	ASS Method (NAAQS Volume-I)
Nickel (Ni)	ASS Method (NAAQS Volume-I)
Arsenic (As)	ASS Method (NAAQS Volume-I)
Benzo(a)pyrene (BaP)	IS 5182(Part-12): 2004

The duration of sampling of PM_{2.5}, PM₁₀, SO₂ and NO₂ was 24 hourly continuous sampling per day and CO were sampled for 1 hours continuous, thrice in 24-hour duration monitoring. The monitoring was conducted for one day at each location. This is to allow a comparison with the National Ambient Air Quality Standards.

The air samples were analysed as per standard methods specified by Central Pollution Control Board (CPCB) and IS: 5182.

Respirable Dust Samplers instruments have been used for monitoring Particulate Matter (PM₁₀), Respirable fraction (<10 microns) and gaseous pollutants like SO₂, and NO₂. Pulse pumps and mylar bags were used for collection of Carbon monoxide samples. Gas Chromatography techniques have been used for the estimation of CO.

3.1.3 Ambient Air Quality Monitoring Results

Parameter	Result	Limit as per NAAQS	Unit
Particulate Matter (PM _{2.5})	48.4	60	mg/m ³
Particulate Matter (PM ₁₀)	79.3	100	mg/m ³
Sulphur Dioxide (SO ₂)	28.6	80	mg/m ³
Nitrogen Dioxide(NO ₂)	42.4	80	mg/m ³
Ammonia (NH ₃)	< 10.0	400	mg/m ³
Carbon Monoxide (CO)	1.2	04	mg/m ³
Benzene(C ₆ H ₆)	< 0.05	05	mg/m ³
Ozone (O ₃)	< 33.0	100	mg/m ³
Lead (Pb)	0.064	1.0	mg/m ³
Nickel (Ni)	< 12.0	20	mg/m ³
Arsenic (As)	< 1.2	06	mg/m ³
Benzo(a)pyrene (BaP)	< 0.2	01	mg/m ³

3.2 AMBIENT NOISE MONITORING

3.1.1 Ambient Noise Monitoring Locations

The main objective of noise monitoring in the study area is to assess the present ambient noise levels at North West corner of the Plot due to various construction allied activities around the site and increased vehicular movement. A preliminary reconnaissance survey has been undertaken to identify the major noise generating sources in the area. Ambient noise monitoring was conducted at North West corner in the month of March 2022.

3.2.2 Methodology of Noise Monitoring

Noise levels were measured using integrated sound level meter manufactured by Kusam – Meco KM929 MK I Sr. No.AIR-I-057 Sound Level Meter has been designed to meet the measurement requirement of noise engineers, noise quality control & health prevention in various environments, such as noise measurement in factory, Office, Traffic Road, Family & all other noise measurement applications.

Noise level monitoring was carried out continuously for 24-hours with one-hour interval starting at 06:25 hrs to 05:25 hrs next day. The noise levels were monitored on working days only.

During each hour Leq were directly computed by the instrument based on the sound pressure levels. Lday (Ld), Lnight (Ln) and Ldn values were computed using corresponding hourly Leq. Monitoring was carried out at 'A' response and fast mode.

3.2.3 Ambient Noise Monitoring Results

The location of ambient noise monitoring results is summarized in the below tabulation

Day Time	Noise Level dB(A)	Night-time	Noise Level dB(A)
06:25	50.9	22:25	54.5
07:25	62.4	23:25	53.8
08:25	62.3	00:25	56.6
09:25	61.2	01:25	53.3
10:25	66.6	02:25	54.5
11:25	67.2	03:25	53.8
12:25	59.9	04:25	56.8
13:25	53.5	05:25	59.4
14:25	57.3		
15:25	64.8		
16:25	57.1		
17:25	62.8		
18:25	63.7		
19:25	65.2		
20:25	54.8		
21:25	54.8		
Day Time Avg.	60.3	Night-time Avg.	55.3

3.2.4 Discussion on Ambient Noise Levels in the Study Area

Day Time Noise Levels:

The day-time noise level was found to within limit prescribed for residential area.

Night-time Noise Levels:

The night-time noise level was found to within limit prescribed for residential area.

3.3 GROUNDWATER QUALITY MONITORING

3.3.1 Groundwater Quality Monitoring Locations

Facility at project site is using water through tanker for the construction purpose and RO water for drinking purpose. There is no bore well present at site. So, ground water monitoring is not required.

3.4 SOIL MONITORING

3.4.1 Soil Monitoring Locations

The objective of the soil monitoring is to identify the impacts of ongoing project activities on soil quality and predict impacts, which have arisen due to execution of various constructions allied activities. Accordingly, a study of assessment of the soil quality has been carried out.

To assess impacts of ongoing project activities on the soil in the area, the physico-chemical characteristics of soils were examined by obtaining soil samples from selected point and analysis of the same. One sample of soil was collected from the project site in the month of March 2022 for studying soil characteristics.

3.4.2 Methodology of Soil Monitoring

Monitoring was conducted in respect of the following parameters:

TEST PARAMETER	TEST METHOD
pH (10 % Solution)	Test Method
Loss on Drying @ 105°C	SW-846-9045-C
Loss on Ignition @550°C	APHA 2540
Sulphate as SO ₄	APH A 2540
Chloride as Cl	IS 3025(Part 24)2009
Copper	IS 3025(Part 32)2007
Cobalt	IS. 3025(P-45)1993
Lead	IS: 3025(P-45)1993
Iron	IS:3025(P-34)1988
Manganese	IS:3025(P-31)1988
Zinc	APHA 23rd Edition
Nickel	IS 3025 (Part 49)2009
Chromium	IS 3025 (Part 54)2003

3.4.3 Soil Monitoring Results

The physico-chemical characteristics of the soil, as obtained from the analysis of the soil sample are presented

Test Parameter	Result	Unit	Test Method
pH (10 % Solution)	7.6	---	SW-846-9045-C
Loss on Drying @ 105°C	28	%	APHA 23rd Edition
Loss on Ignition @550°C	4.1	%	APHA 23rd Edition
Sulphate as SO ₄	<2.5	mg/kg	IS 3025(Part 24)2009
Chloride as Cl	124	mg/kg	IS 3025(Part 32)2007
Cooper as Cu	6.2	mg/kg	IS. 3025(P-34)1998
Cobalt as Co	<0.5	mg/kg	IS. 3025(P-45)1993
Lead as Pb	<0.1	mg/kg	IS: 3025(P-31)1993
Iron as Fe	198	mg/kg	IS:3025(P-31)1988
Manganese as Mn	30	mg/kg	APHA 23rd Edition
Zinc as Zn	8	mg/kg	APHA 23rd Edition
Nickel as Ni	<0.1	mg/kg	IS 3025 (Part 54)2003
Chromium as Cr	<0.1	mg/kg	IS 3025 (Part 52)2003

3.4.4 Discussion on Soil Characteristics in the Study Area

The soil in study area is characterized by moderate organic content. The soil quality in the project area has not been affected by the project activities.

PAPL/ERM/064

TEST REPORT

Report No. : PAPL/EW-1A/03-23	Report Date : 16.03.2023
Sample Ref No. : 1A/EW-1A/03-23	Sampling plan / SOP : Not Applicable
Name of Industry : Navi Mumbai Municipal Transport	
Address : Construction of Integrated Bus Terminus cum Commercial complex on Plot no 3, sector 9A, Vashi Navi Mumbai - 400703	
Name of Sample : Soil Sample	Sample Collected by : PAPL
Date of test completion : 16.03.2023	Date of sample Collection : 09.03.2023
Sample Quantity & condition: Received appx. 1 kg. in sealed, labeled plastic bag.	Date of sample receipt : 09.03.2023

CERTIFICATE OF ANALYSIS

Sr. No.	Test Parameter	Result	Unit	Test Method
1	pH (10 % Solution)	7.6	---	SW-846-9045-C
2	Loss on Drying @ 105°C	28	%	APHA 23rd Edition
3	Loss On Ignition @550°C	4.1	%	APHA 23rd Edition
4	Sulphate as SO ₄	<2.5	mg/kg	IS 3025(Part 24)2009
5	Chloride as Cl	124	mg/kg	IS 3025(Part 32)2007
6	Copper as Cu	6.2	mg/kg	IS: 3025(P-45)1993
7	Cobalt as Co	<0.5	mg/kg	IS: 3025(P-45)1993
8	Lead as Pb	<0.1	mg/kg	IS:3025(P-34)1988
9	Iron as Fe	198	mg/kg	IS:3025(P-31)1988
10	Manganese as Mn	30	mg/kg	APHA 23rd Edition
11	Zinc as Zn	8	mg/kg	IS 3025(Part 49)2009
12	Nickel as Ni	<0.1	mg/kg	IS 3025(Part 54)2003
13	Chromium as Cr	<0.1	mg/kg	IS 3025 (Part 52)2003

Remark: ----

Pradip

ANALYSED BY :

Pradip

REVIEWED BY

Pradip

AUTHORIZED SIGNATORY

AIR-F-002

TEST REPORT AMBIENT AIR QUALITY MONITORING

Report No.	PAPL/A-406A/03-23	Report Date	14/03/2023	
Work Order No.	---			
Name of Customer	M/s. Navi Mumbai Municipal Transport			
Address	Integrated Bus Terminus cum Commercial complex on Plot No. 3, Sector 9A, Vashi, Navi Mumbai, 400703.			
MoEF Certificate No.	S.O.3744(E) dated 17.10.2019	Valid up to	16/10/2024	
Type of sampling	AAQM	24 Hrs.	✓ AAQM 24 Hrs.	
Instrument used	RDS	✓	FD5	
	ID No.	PAPL/LAB/013	ID No.	
	Calibration Due Date	31/08/2023	Calibration Date	
Date of Sampling	09/03/2023	Sample Ref. No	103A/A-406A/03-23	
Location of sampling	North West Corner near Steel Yard			
Sample Collected By	Padmaja Aerobiologicals Pvt. Ltd.			
POLLUTION PARAMETERS				
Parameter	Result	Limit as per NAAQS	Unit Method	
Particulate Matter (PM _{2.5})	48.4	60	µg/m ³	Gravimetric method (CPCB guidelines 2012, NAAQS Volume -I)
Particulate Matter (PM ₁₀)	79.3	100	µg/m ³	IS 5182(Part-23):2006,Reaffirmed-2017
Sulphur Dioxide (SO ₂)	28.6	80	µg/m ³	IS 5182(Part -02):2001,Reaffirmed-2017
Nitrogen Dioxide (NO ₂)	42.4	80	µg/m ³	IS 5182(Part-06):2006,Reaffirmed-2017
Ammonia (NH ₃)	<10.0	400	µg/m ³	IS:5185 (Part-25):2018
Carbon monoxide (CO)	1.2	04	mg/m ³	IS 5182(Part-10):1999,Reaffirmed -2009
Benzene (C ₆ H ₆)	<0.05	05	µg/m ³	IS 5182(Part-11):2006
Ozone (O ₃)	<33.0	100	µg/m ³	IS:5185 (Part-9):1974 Reaffirmed-2019
Lead (Pb)	0.046	1.0	µg/m ³	AAS Method (NAAQS Volume-I)
Nickel (Ni)	<12.0	20	ng/m ³	AAS Method (NAAQS Volume-I)
Arsenic (As)	<1.2	06	ng/m ³	AAS Method (NAAQS Volume-I)
Benzo(a)pyrene (BaP)	<0.2	01	ng/m ³	IS 5182(Part-12):2004

Sampling conditions	Rein	No	Construction site near by	Yes
	Wind	No	Vehicular Activity	No

Remark:--

Note: This test report may not be produced in part or full, without the permission of this laboratory.
This test report refers only to the sample submitted for the testing.

Pf
Analyst

Pati
Reviewed by

psalal
Authorized Signatory

----- End of test report -----

AIR-F-007

Ref. No.: 103D/A-406D/03-23

Date: 14/03/2023

Work Order No. :- --

Name of the Industry: M/s. Navi Mumbai Municipal Transport
Construction of Integrated Bus Terminus cum
Commercial complex on Plot No. 3, Sector 9A,
Vashi, Navi Mumbai, 400703.

CERTIFICATE OF ANALYSIS

D.G SET NOISE LEVEL MEASUREMENT

Date of Sampling: 09/03/2023

Time	Locations	Noise Level in dB (A) (Day Time)	Limit dB (A)
13:20 hrs.	D.G. Set 125 KVA(Door Opened)	93.5	--
13:22 hrs.	D.G. Set 125 KVA(Door Closed-East side)	73.5	<75
13:26 hrs.	D.G. Set 125 KVA(Door Closed-West side)	71.2	<75
13:27 hrs.	D.G. Set 125 KVA(Door Closed-North Side)	73.6	<75
13:28 hrs.	D.G. Set 125 KVA(Door Closed-South Side)	73.7	<75

Remark: --

Instrument used: -Kusam-Meco KM 929 MK1 Sr. No. PAPL/LAB/101
Instrument Calibration Due date: - 28/10/2023.

P.K.
Analyst

Fatil
Reviewed by

pschel
Authorized Signatory

----- End of test report -----

AIR-F-011

Ref. No.: 103B/A-406B/03-23

Date: 14/03/2023

Work Order No. :-

Name of the Industry: M/s. Navi Mumbai Municipal Transport

Integrated Bus Terminus cum

Commercial complex on Plot No. 3, Sector 9A,

Vashi, Navi Mumbai.400703.

CERTIFICATE OF ANALYSIS NOISE LEVEL MEASUREMENTS

Date of Sampling: 09/03/2023 to 10/03/2023

LOCATION: North East Corner near Site Entrance

Day Time	Noise Level dB(A)	Night Time	Noise Level dB(A)
06:25	50.9	22:25	54.5
07:25	62.4	23:25	53.8
08:25	63.3	00:25	56.6
09:25	61.2	01:25	53.3
10:25	66.6	02:25	54.5
11:25	67.2	03:25	53.8
12:25	59.9	04:25	56.8
13:25	53.5	05:25	59.4
14:25	57.3		
15:25	64.8		
16:25	57.1		
17:25	62.8		
18:25	63.7		
19:25	65.2		
20:25	54.8		
21:25	54.8		
Day Time Avg.	60.3	Night Time Avg.	55.3

Remark:-

Instrument used: -Kusam-Meco KM 929 MK1 Sr. No. PAPL/LAB/071

Instrument Calibration Due date: - 28/10/2023.

Limit During Day Time < 75dB(A)

Limit During Night Time < 70dB(A)


Analyst


Reviewed by


Authorized Signatory

'NANDAN' Plot No - 36, Sec-24, Near Bank Of India, Turbhe, Navi Mumbai - 400 705.

Tel : 022-2783 2532 / 2783 2817 Telefax : 022-2783 2818 E-Mail : papiturbhe@yahoo.co.in Web: www.padmajalab.com

AIR-F-005

CERTIFICATE OF ANALYSIS

ANALYSIS REPORT FOR STACK EMISSION

Sample / Report Ref. No.	103C/A-406C/03-23
Work Order No.	--
Report Date	14/03/2023
Name of Industry	Integrated Bus Terminus cum Commercial complex on
Address:	Plot No. 3, Sector 9A, Vashi, Navi Mumbai, 400703.
Sample Collected by:	PADMAJA AEROBIOLOGICALS PVT. LTD.
Date of Sampling	09/03/2023

PARTICULARS OF STACK

Stack Attached to	D.G. Set (125KVA)
Stack Diameter (Meter)	0.1016
Stack Height (Meter)	1.0 Above Roof
Stack Temperature (°C)	136
Stack Velocity of Flue Gases (m/s)	12.4
Stack Volume of Flue Gases (Nm ³ /hr)	263
Type of Fuel	Diesel

POLLUTION PARAMETERS

Parameter	Result	Limit	Unit	Method
Particulate Matter (PM)	0.140	0.3	g/kw-hr	IS-11255 (Part 1) 1985 R-2019
SO ₂ Conc.	0.48	NS	Kg/day	IS-11255 (Part 2) 1985 R-2019
NO _x Conc.	0.104	9.2	g/kw-hr	IS-11255 (Part 7) 2005 Reaffirmed 2012

Remark: --

NS: - Not Specified.

Instrument used: -Polltech & PEM- SMK 10M, Instrument I.D. No. PAPL/LAB/012

Instrument Calibration Due date: - 31/08/2023.

P.Y.
Analyst

P. J. J.
Reviewed by

P. J. J.
Authorized Signatory

----- End of test report -----



NAVI MUMBAI MUNICIPAL CORPORATION

ENVIRONMENT DEPARTMENT

Below Agroli Bridge, C.B.D. Belapur, Navi Mumbai 400 614.

(ISO 9001:2015 Certified)

Nav Mumbai Municipal Transport Sec-9, Vashi, Navi Mumbai

28/01/2022

AMBIENT AIR QUALITY

Location	SO ₂ (< 80 µg/m ³)			Nox (< 80 µg/m ³)			NH ₃ (< 400 µg/m ³)			H ₂ S (µg/m ³)			RSPM (< 60 µg/m ³)
	Avg	Min	Max	Avg	Min	Max	Avg	Min	Max	Avg	Min	Max	
Navi Mumbai Municipal Transport Sec-9, Vashi	13.2	12.4	14.1	36.9	27.5	46.5	14.5	13.7	15.2	6.6	5.7	7.5	99.9
	15.3	12.7	17.9	30.1	28.7	31.4	10.9	9.6	12.2	6.0	4.9	7.1	112.4

Reported By

[Signature]
Field Chemist

Checked By

[Signature]
Lab Incharge
Laboratory



NAVI MUMBAI MUNICIPAL CORPORATION

ENVIRONMENT DEPARTMENT

Below Agroli Bridge, C.E.D. Belapur, Navi Mumbai-400 614.

(ISO 9001:2015 Certified)

Location :- Navi Mumbai Municipal Transport Sec-9, Vashi, Navi Mumbai

Date :-25/11/2022 & 28/11/2022

AMBIENT AIR QUALITY

Date & Time	Location	VOC (mg/m ³)	PM 10 ($< 100 \mu\text{g}/\text{m}^3$)	PM 2.5 ($< 60 \mu\text{g}/\text{m}^3$)	NH ₃ ($< 0.4 \text{ mg}/\text{m}^3$)	H ₂ S (mg/m ³)	CO ($< 4 \text{ mg}/\text{m}^3$)	CH ₄ (mg/m ³)
25/11/2022 10.00am To 6.00pm	Navi Mumbai Municipal Transport Sec -9, Vashi.	9.0	106.5	80.0	0.00	0.00	0.70	44.0
28/11/2022 10.00am To 6.00pm		8.7	113.5	79.0	0.00	0.00	1.2	48.5

Analysed By

RA

Chemist

Reported By

NA

Field Chemist

Checked By

DA

Lab Incharge
Environmental Laboratory



NAVI MUMBAI MUNICIPAL CORPORATION

ENVIRONMENT DEPARTMENT

Below Agroti Bridge, C.B.D. Belapur, Navi Mumbai 400 614.

(ISO 9001:2015 Certified)

Location :- Navi Mumbai Municipal Transport Sec-9, Vashi, Navi Mumbai.

Date :- 25/11/2022 & 28/11/2022

SOUND QUALITY

Date & Time	Location	SOUND (<75dB(A))		
		Min.	Max.	Avg.
25/11/2022 10.00am To 6.00pm	Navi Mumbai Municipal Transport Sec -9, Vashi	58.0	74.0	66.0
28/11/2022 10.00am To 6.00pm		57.0	68.0	62.5

Analysed By

[Signature]
Chemist

Reported By

[Signature]
Field Chemist

Checked By

[Signature]

Lab Incharge

Environmental Laboratory



NAVI MUMBAI MUNICIPAL CORPORATION

ENVIRONMENT DEPARTMENT

Below Agrosi Bridge, C.B.D. Belapur, Navi Mumbai 400 614.

(ISO 9001:2015 Certified)

Location :- Navi Mumbai Municipal Transport Sec-9, Vashi, Navi Mumbai.

Date :- 29/12/2022

SOUND QUALITY

Date & Time	Location	SOUND (<75dB(A))		
		Min.	Max.	Avg.
29/12/2022 10.00am To 6.00pm	Navi Mumbai Municipal Transport Sec -9, Vashi.	57.0	73.0	65.0

Analysed By

Ref
Chemist

Reported By

Ref
Field Chemist

Checked By

Ref
Lab Incharge



NAVI MUMBAI MUNICIPAL CORPORATION

ENVIRONMENT DEPARTMENT

Beliw Agrol Bridge, C.E.D. Belapur, Navi Mumbai 400 614.

(ISO 9001:2015 Certified)

Location :- Navi Mumbai Municipal Transport Sec-9, Vashi, Navi Mumbai.

Date :- 29/12/2022

AMBIENT AIR QUALITY

Date & Time	Location	VOC (mg/m ³)	PM 10 (< 100 µg/m ³)	PM 2.5 (< 60 µg/m ³)	NH ₃ (<0.4 mg/m ³)	H ₂ S (mg/m ³)	CO (<4 mg/m ³)	CH ₄ (mg/m ³)
29/12/2022 10.00am To 6.00pm	Navi Mumbai Municipal Transport Sec -9, Vashi.	7.4	123.0	87.5	0.00	0.00	1.45	51.0

Analysed By

Raf
Chemist

Reported By

A. S. C.
Field Chemist

Checked By

Prof
Lab Incharge



NAVI MUMBAI MUNICIPAL CORPORATION

ENVIRONMENT DEPARTMENT

Below Agrol Bridge, C.B.D. Belapur, Navi Mumbai 400 614.

(ISO 9001:2015 Certified)

Location - Navi Mumbai Municipal Transport Sec-9, Vashi, Navi Mumbai

Date - 28/12/2022 & 29/12/2022

AMBIENT AIR QUALITY

Date & Time	Location	SO ₂ (< 80 µg/m ³)			NO _x (< 50 µg/m ³)			NH ₃ (< 400 µg/m ³)			H ₂ S (µg/m ³)			RSPM (< 60 µg/m ³)
		Avg	Min	Max	Avg	Min	Max	Avg	Min	Max	Avg	Min	Max	
28/12/2022 9am to 5:00pm	Navi Mumbai Municipal Transport Sec-9, Vashi.	17.2	16.2	18.2	32.3	24.8	39.9	9.9	9.6	10.2	4.9	4.3	5.7	99.9
29/12/2022 9am to 5:00pm		17.3	13.4	21.3	33.9	27.0	40.7	24.9	14.2	35.6	4.3	3.9	4.6	112.4

Reported By

Signature

Field Chemist

Checked By

Signature

Lab Incharge



NAVI MUMBAI MUNICIPAL CORPORATION
ENVIRONMENT DEPARTMENT

Below Agrioli Bridge, C.B.D. Belapur, Navi Mumbai 400 614.
(ISO 9001:2015 Certified)

From: Navi Mumbai Municipal Transport Sec-9, Vashi, Navi Mumbai
Date: 24/01/2023 & 25/01/2023

AMBIENT AIR QUALITY

Date & Time	Location	SO ₂ (< 80 µg/m ³)		NO _x (< 80 µg/m ³)		NH ₃ (< 400 µg/m ³)		H ₂ S (µg/m ³)			RSPM (< 60 µg/m ³)
		Avg	Min	Max	Avg	Min	Max	Avg	Min	Max	
24/01/2023 10am to 6:00pm	Navi Mumbai Municipal Transport Sec-9, Vashi.	18.1	16.8	19.3	33.4	26.5	40.3	9.1	8.1	10.2	87.3
25/01/2023 10am to 6:00pm		15.5	13.1	17.9	27.7	26.1	29.2	8.9	7.1	10.7	112.3

Used By

Y
nist

Reported By

Field Chemist

Checked By

Lab Incharge
Enviro Nment Laboratory



NAVI MUMBAI MUNICIPAL CORPORATION

ENVIRONMENT DEPARTMENT

Below Agrosi Bridge, C.B.D. Belapur, Navi Mumbai 400 614.

(ISO 9001:2015 Certified)

Location :- Navi Mumbai Municipal Transport Sec-9, Vashi, Navi Mumbai.

Date :- 24/01/2023

SOUND QUALITY

Date & Time	Location	SOUND (<75dB(A))		
		Min.	Max.	Avg.
24/01/2023 10.00am To 6.00pm	Navi Mumbai Municipal Transport Sec -9, Vashi.	54.0	71.0	62.5

Analysed By

[Signature]
Chemist

Reported By

[Signature]
Field Chemist

Checked By

[Signature]
Lab Incharge, NIS,
For Environment Laboratory



NAVI MUMBAI MUNICIPAL CORPORATION

ENVIRONMENT DEPARTMENT

Below Agrosil Bridge, C.B.D. Belapur, Navi Mumbai 400 514.

(ISO 9001:2015 Certified)

Location :- Navi Mumbai Municipal Transport Sec-9, Vashi, Navi Mumbai.
Date :- 24/01/2023

AMBIENT AIR QUALITY

Date & Time	Location	VOC (mg/m ³)	PM 10 (< 100 µg/m ³)	PM 2.5 (< 50 µg/m ³)	NH ₃ (<0.4 mg/m ³)	H ₂ S (mg/m ³)	CO (<4 mg/m ³)	CH ₄ (mg/m ³)
24/01/2023 10.00am To 6.00pm	Navi Mumbai Municipal Transport Sec-9, Vashi	6.2	93.0	69.5	0.00	0.00	1.50	48.5

Analysed By

28
hemist

Reported By

28
Field Chemist

Checked By

28

Lab Incharge
For Environmental Laboratory



NAVI MUMBAI MUNICIPAL CORPORATION

ENVIRONMENT DEPARTMENT

Bhamburda Bridge, C.E.D. Belapur, Navi Mumbai 400 614.

(ISO 9001:2015 Certified)

Location :- Navi Mumbai Municipal Transport Sec-9, Vashi, Navi Mumbai.

Date :- 28/02/2023 & 01/03/2023

AMBIENT AIR QUALITY

Date & Time	Location	VOC (mg/m ³)	PM 10 ($< 100 \mu\text{g}/\text{m}^3$)	PM 2.5 ($< 60 \mu\text{g}/\text{m}^3$)	NH ₃ ($< 0.4 \text{ mg}/\text{m}^3$)	H ₂ S (mg/m ³)	CO ($< 4 \text{ mg}/\text{m}^3$)	CH ₄ (mg/m ³)
28/02/2023 10:00am To 6:00pm	Navi Mumbai Municipal Transport Sec -9, Vashi	6.5	49.0	51.5	0.00	0.00	1.00	31.5
1/3/2023 10:00am To 6:00pm		6.7	81.5	58.0	0.00	0.00	1.4	51.0

Analysed By

[Signature]

Chemist

Reported By

[Signature]

Field Chemist

Checked By

[Signature]

Lab In-charge

[Signature]



NAVI MUMBAI MUNICIPAL CORPORATION

ENVIRONMENT DEPARTMENT

Below Agrolli Bridge, C.B.D. Belapur, Navi Mumbai 400 114

(ISO 9001:2015 Certified)

Location : Navi Mumbai Municipal Transport Sec-9, Vashi, Navi Mumbai

Date : 28/02/2023 & 01/03/2023

SOUND QUALITY

Date & Time	Location	SOUND (<75dB(A))		
		Min.	Max.	Avg.
28/02/2023 10.00am To 6.00pm	Navi Mumbai Municipal Transport Sec-9, Vashi	53.0	64.0	58.5
1/3/2023 10.00am To 6.00pm		52.0	65.0	58.5

Analysed By

RS
Chemist

Reported By

RS
Field Chemist

Checked By

RS
Lab Incharge

13 Laboratory



NAVI MUMBAI MUNICIPAL CORPORATION

ENVIRONMENT DEPARTMENT

Below Agrolli Bridge, C.B.D. Belapur, Navi Mumbai - 401 614.
(ISO 9001:2015 Certified)

Location: Navi Mumbai Municipal Transport Sec-9, Vashi, Navi Mumbai.
Date: 15/02/2023 & 01/03/2023

AMBIENT AIR QUALITY

Date & Time	Location	SO ₂ (< 80 µg/m ³)			NO _x (< 80 µg/m ³)			NH ₃ (< 400 µg/m ³)			H ₂ S (µg/m ³)			RSPM (< 60 µg/m ³)
		Avg	Min	Max	Avg	Min	Max	Avg	Min	Max	Avg	Min	Max	
28/2/2023 10am to 5:00pm	Navi Mumbai Municipal Transport Sec -9, Vashi	10.1	9.9	10.3	25.2	24.7	25.7	4.8	4.6	5.1	4.0	3.2	4.9	74.9
1/3/2023 10am to 6:00pm		13.9	13.1	14.8	19.0	18.1	19.9	4.3	4.1	4.6	4.4	3.9	4.9	50.0

Used By

Date

Reported By

Field Chemist

Checked By

Lab Incharge

F.No.6-1/2021 WL
Government of India
Ministry of Environment, Forest and Climate Change
(Wildlife Division)

2nd Floor, Jal Wing,
Indira Paryavaran Bhawan,
Jorbagh Road, Aliganj,
New Delhi 110003
Date: 01.02.2021

To
The Principal Secretary,
Forest Department,
Van Bhavan, Ramgiri Road, Civil Lines,
Nagpur 440001.

Sub: Construction of Integrated Bus Terminus cum Commercial complex on plot no. 3, Sector 9a, Vashi, Navi Mumbai, dist. Thane by Navi Mumbai Municipal Transport- reg.

Sir,
Reference is invited to the subject mentioned above. The 60th Meeting of Standing Committee of National Board for Wild Life was held on 5th January, 2021 through Video Conference under the Chairmanship of Hon'ble Minister for Environment, Forest & Climate Change.

After discussions, the Standing Committee decided to recommend the proposal subject to the following:

A. Conditions imposed by the Chief Wild Life Warden:

1. Project personnel, engaged in the project work shall observe the provisions of all the existing legal provisions, especially the Environment (Protection) Act, 1986, Wild Life (Protection) Act, 1972 and rules made there under & also take all precautionary measures for conservation & protection of flora, fauna in the vicinity of the project.
2. No dumping of debris on wet lands/mud flat and forest area will be done by project proponent.
3. All the other mandatory permissions from different statutory authorities should be obtained prior to commencement of work.
4. The project proponent shall deposit 2% cost of the (Rs.168.00 Crore) proposed project which passes through the deemed ESZ of the Thane Creek Flamingo Sanctuary for management of the sanctuary.
5. The annual compliance certificate on the stipulated conditions should be submitted by the project proponent to the State Chief Wild Life Warden and an annual compliance certificate shall be submitted by the State Chief Wild Life Warden to Government of India.

Details of the recommendations have been illustrated in the minutes of the meeting posted online in the "PARIVESH" portal of this Ministry.

Yours faithfully,


(Surender Gugloth)
Scientist 'D'

Email: ddwlmeff@gmail.com

Copy to:

1. Chief Wild Life Warden, Government of Maharashtra, Forest Department, Van Bhavan, Ramgiri Road, Civil Lines, Nagpur 440001.
2. Regional Officer, Integrated Regional Office, Ministry of Environment, Forest and Climate Change, Ground Floor, East Wing, New Secretariat Building, Civil Lines, Nagpur-440001.
3. The Inspector General of Forests, FC Division, MoEF&CC, New Delhi.
4. The Joint Secretary, IA Division, MoEF&CC, New Delhi.

Revised Letter of Award

To:
M/s. JBM Solaris Electric Vehicles Pvt Ltd.,
Plot No. 11B, HSIDC, Sector 59, Ballabgarh,
Faridabad, Pin - 121004.

Subject: Letter of Award for Supply of Battery Operated 9M Electric 30 Buses with chargers.

Ref: 1) Tender No.NMMT/TM/ENGG/07/2018-19
2) Transport Committee Resolution No.103, dated 23-01-2019


This is to notify you that your above referred bid submitted pursuant to Tender for Selection of a Contractor for "Supply of Battery Operated Electric 30 Buses with Chargers and Annual Maintenance Contract (AMC)" dated 14/08/2018, the following price offered in your Price Bid from amongst the bids submitted and is hereby accepted by the NMMT:

Sr.	Description	Qty.	Quoted Rates (Basic Price)	GST @12%	Destination Price (Price per Unit)
1	Supply of 9 Metre AC 900 mm Floor Height	30	₹1,19,19,643/-	₹14,30,357/-	₹1,33,50,000/-
	Total for 30 Buses				₹40,05,00,000/-
2	Supply of Chargers	10	₹11,82,203/-	₹2,12,797/-	₹13,95,000/-
	Total for 10 Charger				₹1,39,50,000/-
	Total (1+2)				₹41,44,50,000/-

(In Rupees Forty One Crore Forty Four Lac Fifty Thousand Only)

Pursuant to the provisions of the RFP, you are hereby required to undertake the following:

- Countersign this letter of award at the place indicated below to indicate your acknowledgment of the Letter of Award by the Navi Mumbai Municipal Transport Undertaking to you and return it within a period of 07 days from the date of this letter;
- You are required to send your duly authorised representative (with the proof of due authorisation in the form of power of attorney or a Board Resolution) to execute the Contract with paid stamp duty of Rs 4,15,000/- which shall be executed without any deviation as per tender.


Transport Manager
Navi Mumbai Municipal Transport Undertaking





नवी मुंबई
महानगरपालिका

Navi Mumbai
Municipal Corporation

मुख्यालय: नवी मुंबई महानगरपालिका, नवी मुंबई
मुख्यालय: नवी मुंबई महानगरपालिका, नवी मुंबई
मुख्यालय: नवी मुंबई महानगरपालिका, नवी मुंबई
मुख्यालय: नवी मुंबई महानगरपालिका, नवी मुंबई
मुख्यालय: नवी मुंबई महानगरपालिका, नवी मुंबई

Head Office: NMC
Navi Mumbai Municipal Corporation
Sector 15, MIDC Road, Navi Mumbai - 401 001
Tel: 022-27661111
Fax: 022-27661111

Ref No: NMM/TV/ENG/2019/68

Date: 29/06/2019

To
The Under Secretary (AFC),
Department of Heavy Industry,
Room No. 387, Udyog Bhawan, New Delhi - 110011

Subject: Proposal for the deployment of Electric Buses in response to the EO issued by DHI dated 04/06/2019.

Reference Department of Heavy Industry's Expression of Interest issued on 04/06/2019 inviting detailed proposals from cities, for extending demand incentives under FAME India scheme Phase II for deployment of electric buses for public transport. We are hereby submitting our Expression of Interest, in the prescribed format, for consideration of the Department of Heavy Industry. We agree to abide by the conditions outlined in the said EO.

We as a result of this declare that our proposal submitted in response to this EO is made in good faith and the information contained is true and correct to the best of our knowledge and belief. If any of the information provided here is found to be misleading, we are liable to be disqualified from the EO selection process.

(Dr. Ramaswami N.)
Municipal Commissioner
Navi Mumbai Municipal Corporation

**नवी मुंबई महानगरपालिका
परिवहन उपक्रम**

**NAVI MUMBAI MUNICIPAL
TRANSPORT**



कार्यालय : नवी मुंबई महानगरपालिका परिवहन उपक्रम,
बेलापुर भवन, ६वा मजला, सेक्टर-११,
सी.बी.डी. बेलापुर, नवी मुंबई - ४०० ६१४.
दुरध्वनी : ०२२ - २७५७९०३२
फॅक्स : ०२२ - २७५७ ९०३३

Office : Navi Mumbai Municipal Transport,
Belapur Bhavan, 6th Floor, Sector-11,
CBD Belapur, Navi Mumbai - 400 614.
Tel: 022 - 2757 9032
Fax : 022 - 2757 9033

E-mail : nmmtmail@gmail.com

To

NMMC/TM/E.E.(Civil)/141 /2019
Date:13.8.2019

The Member Secretary
State Environmental Impact Assessment Authority,
15th Floor, New Administrative Block,
Department of Environment, Mantralaya,
Mumbai, Maharashtra.

Subject : Point wise reply raised by Honourable SEIAA during 170th Meeting on
15th July 2019 for Proposed Integrated Bus Terminus cum Commercial
Complex Project On Plot No. 3, Sector 9A, Vashi, Navi Mumbai, Dist. Thane
by Navi Mumbai Municipal Transport.

Dear Sir,

With reference to the 170th SEIAA meeting, we are submitting herewith the point wise reply.

Sr. No.	Queries Raised during 170 th Meeting of SEIAA	Reply
1	PP to submit report of AAQM modelling study.	AAQM modelling study report is attached as an Annexure 1.
2	PP to submit CER plan to Municipal Commissioner, and submit the acknowledgement copy to Member Secretary, SEIAA	The acknowledgement copy of submission of CER plan to Municipal Commissioner is attached as an Annexure 2.

We request you to consider our project for grant of Environmental Clearance.

Thanking you,

Yours Faithfully,

Transport Manager
Navi Mumbai Municipal Transport