

purva patil

From: purva patil <purva.patil@eaepl.com>
Sent: Monday, July 22, 2019 2:47 PM
To: ecompliance
Subject: Submission of PMR for M/s. Real Gem Build Tech Pvt. Ltd., "Orchid Crown" for the period of October, 2018 – March, 2019
Attachments: PMR_Real Gem Build Tech Pvt. Ltd.-Orchid Crown_Oct,18-Mar,19.pdf

To,

The Director,
Ministry of Environment, Forest & Climate Change,
Regional Office, West Central Zone,
New Secretarial Building, East wing, Civil Lane,
Near Old VCA stadium,
Nagpur - 440001.
Maharashtra.

Subject : Submission of Post Monitoring Report for the period of October, 2018 – March, 2019 for Residential project "Orchid Crown" and MCGM parking lot at plot no. 1043, Prabhadevi, Mumbai.

Reference: Clearance letter No. SEAC 2010/CR.3/TC.2 dtd. 07.04.2012 and dtd. 19.03.2012.

Dear Sir,

This is with reference to the above subject. We are submitting the half yearly post monitoring report along with all relevant documents needed as follows :

1. Data Sheet.
2. EC compliance Report.
3. Post Environment Monitoring Report.
4. Energy Conservation measures.
5. EC letter.
6. Copy of consent to Establish.
7. Copy of Newspaper Advertisement (English & Marathi).

Hope the above are in line with your requirement and kindly acknowledge the receipt.

Thanking you,

Yours faithfully,
M/S. REAL GEM BUILD TECH PVT. LTD.

C.C. to : - The Secretary, Environment Department, Mantralaya, Mumbai.
- The M.S., MPCB, Sion, Mumbai.

o/c

REALTY

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आवक लिपीक
पर्यावरण विभाग
मंत्रालय, मुंबई

REAL GEM BUILDTECH PRIVATE LIMITED

Regd. Office : DR House, Gen. A. K. Vaidya Marg, Goregaon (East), Mumbai - 400 063. • Tel.: 91-22-4077 8800 • Fax: 91-22-2841 5550 / 2842 1667
E-mail: info@dbg.co.in • Website: www.dbrealty.co.in
CIN: U45202MH2009PTC193816

To,

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(Signature)
11/8/19
आवक विभाग (मुख्यालय)
महाराष्ट्र पदप्रणय निवेशक संस्थान,
कल्पतरु पाईक, २४०१०४३७, मुंबई.
सिनेप्लेनट समार, साना (१५५५),
मुंबई - ४०००२५.
फोन :- २४०१०४३७ / २४०५०७५५

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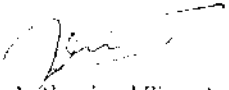
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Ministry of Environment, Forest & Climate Change,
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New Secretarial Building, East wing, Civil Lane,
Near Old VCA stadium,
Nagpur - 440001.
Maharashtra.

Subject : Present status of Project work for October, 2018 – March, 2019.

Reference: Clearance letter No. SEAC 2010/CR.3/TC.2 dtd. 07.04.2012 and dtd. 19.03.2012.

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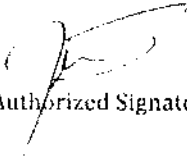
This has reference to the submission of Post Monitoring Report for Residential project "Orchid Crown" and MCGM parking lot at plot no. 1043, Prabhadevi, Mumbai.

The present project status at site is as follows:

Wings	Status
A	Completed up to 39 th floor level
B	Completed up to 39 th floor Level
C	Completed up to 5 th floor level

Thanking you,

Yours truly,
M/S. REAL GEM BUILD TECH PVT. LTD.


Authorized Signatory

REAL GEM BUILDTECH PRIVATE LIMITED

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E-mail: info@dbg.co.in • Website: www.dbreaky.co.in
CIN: U45202MH2009PTC193816

**DATA
SHEET**

Developer

M/S. Real Gem Build Tech Pvt. Ltd.,
Plot bearing F.P. No. 1043 of TPS IV Mahim Division at Gokhale Road,
Mumbai-400028.

MONITORING THE IMPLEMENTATION OF ENVIRONMENTAL SAFEGUARDS

Ministry of Environmental and Forests
Regional Office, West Central Zone, Nagpur.

Monitoring Report**PART - I****DATA SHEET**

1.	Project type: river - valley/ mining/ Industry / thermal / nuclear/ Other (specify)	Construction Project of Residential Building
2.	Name of the project	"Orchid Crown"
3.	Clearance letter (s) / OM/ no and date:	File No. : SEAC 2010/CR-3/TC2 Dtd. 19.03.2012 and 7.04.2012.
4.	Location	Plot bearing F.P. No. 1043 of TPS IV Mahim Division at Gokhale Road, Mumbai-400028.
a.	District (s)	Mumbai Suburban.
b.	State (s)	Maharashtra.
c.	Latitude/Longitude	Latitude: 19°00'39.19" N Longitude :72°49'50.85"E
5.	Address for correspondence	
a.	Address of concerned project Chief Engineer (with pin code & telephone / telex / fax numbers)	Mr. Chandresh Mehta 702 ,Natraj ,MV raod junction ,western expresss highway Andheri(E) Mumbai 69
b.	Address of Executive Project Engineer /Manager (with pin code / fax number)	Mr. Manish Savant 702 ,Natraj ,MV raod junction ,western expresss highway Andheri(E) Mumbai 69

6.	Salient features											
a.	of the project	<p>Total Plot Area: 24,809.75 sq.mtrs. As per FSI: 93,166.06 sq.m. Non FSI: 2,49,275.31 sq.m. Total Built - Up Area: 3,42,441.37 sq.m.</p> <p>Building configuration:</p> <table border="1"> <thead> <tr> <th>Building</th> <th>Details</th> </tr> </thead> <tbody> <tr> <td>Tower A</td> <td>3B+Grd+60</td> </tr> <tr> <td>Tower B</td> <td>3B+Grd+60</td> </tr> <tr> <td>Tower C</td> <td>3B+Grd+51</td> </tr> <tr> <td>Municipal Car Parking</td> <td>G+14</td> </tr> </tbody> </table>	Building	Details	Tower A	3B+Grd+60	Tower B	3B+Grd+60	Tower C	3B+Grd+51	Municipal Car Parking	G+14
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Tower C	3B+Grd+51											
Municipal Car Parking	G+14											
b.	of the environmental management plans	<p>1. <i>Sewage Treatment Plant:</i> Sewage Treatment Plant with capacity of 300 KLD will be provided for treating the wastewater.</p> <p>2. <i>Water Management:</i> Rain Water Harvesting shall be provided to recharge the ground water table.</p> <p>3. <i>Solid Waste Management:</i></p> <ul style="list-style-type: none"> • Dry wastes will be segregated and disposed off to recyclers. • Wet wastes will be treated in OWC & will be used as manure for Landscape. • STP Sludge (Dry sludge) - Used as manure. 										
7.	Break Up Of the project Area											
a.	Submerge area : forest & :non-forest	Non Forest										
b.	Others	<p>Total Plot Area: 24,809.75 sq.mtrs. As per FSI: 93,166.06 sq.m. Non FSI: 2,49,275.31 sq.m. Total Built - Up Area: 3,42,441.37 sq.m.</p>										

8.	Break up of the project affected: population with enumeration of those losing houses / dwelling units, only agriculture land only, both dwelling units and agriculture land and landless labourers / artisan	Not Applicable.																					
a.	SC, ST / Adivasis	---																					
b.	Others	---																					
	(Please indicate whether these figures are based on any scientific and systematic survey carried out or only provisional figures, if a survey is carried out give details and years of survey)																						
9.	Financial details																						
a.	Project cost as originally planned and subsequent revised estimates and the year of price reference	Total cost: 579 Crores.																					
b.	Allocation made for environmental management plans with item wise and year wise break-up	<table border="1"> <thead> <tr> <th colspan="3">EMP Cost:</th> </tr> <tr> <th>Component</th> <th>Capital Cost (Rs. Lakhs)</th> <th>O & M Cost (Rs. Lakhs/Yr)</th> </tr> </thead> <tbody> <tr> <td>STP</td> <td>60</td> <td>8</td> </tr> <tr> <td>Solar Power</td> <td>30</td> <td>3</td> </tr> <tr> <td>Landscape developments</td> <td>80</td> <td>10</td> </tr> <tr> <td>Solid waste management</td> <td>25</td> <td>5</td> </tr> <tr> <td>RWH</td> <td>25</td> <td>3</td> </tr> </tbody> </table>	EMP Cost:			Component	Capital Cost (Rs. Lakhs)	O & M Cost (Rs. Lakhs/Yr)	STP	60	8	Solar Power	30	3	Landscape developments	80	10	Solid waste management	25	5	RWH	25	3
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c.	Benefit cost ratio/ Internal rate of return and the year of assessment	---																					
d.	Whether (c) includes the cost of environmental management as shown in the above	---																					

e.	Actual expenditure incurred on the project so far	Rs. 124.24 Cr.
f.	Actual expenditure incurred on the environmental management plans so far	Nil.
10.	Forest land required	
a.	The status of approval for diversion of forest land for non-forestry use	The land is of non-forest type hence not applicable.
b.	The status of clearing and felling	R.G. Area Provided: 10,378 Sq. mt. A combination of native evergreen trees and ornamental flowering trees, shrubs and palms are planned in the complex. There will be tree plantation of about 411 Nos. Different species will be selected as per CPCB green belt guidelines and common species available in the proposed area.
c.	The status of compensatory afforestation, if any	---
d.	Comments on the viability & sustainability of compensatory afforestation program in the light of actual field experience so far	N.A.
11.	The status of clear felling in non-forest areas (such as submergence area of reservoir, approach roads), if any with quantitative information	N.A.
12.	Status of construction	
a.	Date of commencement (Actual and/or planned)	2012
b.	Date of completion (Actual and/ of planned)	2023
13.	Reasons for the delay if the project is yet to start	---

14.	Dates of site visits	
a.	The date on which the project was monitored by the regional office on previous occasions, if any	22.05.2019.
b.	Date of site visit for this monitoring report	28.12.2018, 08.03.2019.
15.	Details of correspondence with project authorities for obtaining action plans/ information on status on compliance to safeguards other than the routine letters for logistic support for site visits	File No. : SEAC 2010/CR-3/TC2 Dtd. 19.03.2012 and 7.04.2012. M/S. Real Gem Build Tech Pvt. Ltd. 702 ,Natraj ,MV raod junction ,western expresss highway Andheri(E) Mumbai 69
	(The first monitoring report may contain the details of all the letters issued so far, but the later reports may cover only the letters issued (subsequently))	

COMPLIANCE REPORT

Developer

M/S. Real Gem Build Tech Pvt. Ltd.,

Plot bearing F.P. No. 1043 of TPS IV Mahim Division at Gokhale Road,

Mumbai-400028.

COMPLIANCE REPORT

TERMS & CONDITIONS

1.	This environment clearance is issued subject to condition that, if the municipal parking scheme finally undergoes any change or if any other parameter having an impact on the project changes, the project proponent should approach the SEIAA for amendment of EC.	Yes, we have approached SEIAA in case of amendment.
2.	Project proponent should make a sincere effort to see if part of the RG can still be located on the ground. Local Authority should ensure this while approving the plans.	RG will be provided as per the approved plan.
3.	This environment clearance is only for building up to 69m height. Local Authority should ensure this and verify if any NOC required by project proponent while approving the plans.	This condition has been removed from Environmental Clearance. The amendment letter received dt. 07.04.2012 (Copy Attached)
4.	The proposed height of the building requires NOC from High Rise Committee (HRC), Chief Fire Officer (CFO) & Civil Aviation authority. If there is any change in the plans suggested by above mentioned authorities, Project proponent should approach SEIAA with corrected building plans.	Yes, we have received HRC NOC and Civil aviation NOC.
5.	This environmental clearance is issued subject to land use verification. Local authority / planning authority should ensure this with respect to Rules, Regulations, Notifications, Government Resolutions, Circulars, etc. issued if any. This environmental clearance issued with respect to the environmental consideration and it does not mean that State Level Impact Assessment Authority (SEIAA) approved the proposed land use.	<ol style="list-style-type: none"> 1. Land use is for the residential purpose as per the DP. 2. Planning authority has approved the same as per the prevailing DCR. 3. Notifications and GR orders regarding RG, wild life act etc. are being followed from time to time.
6.	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 commencement certificate to proposed work. Plan approving authority should also ensure the zoning permissibility for the proposed project as per the	<p>The development is as per DCR/local planning authority and are the same are approved as per the norms mentioned there in.</p> <p>The development is being done as per the approval.</p>

	approved development plan of the area.	
7.	"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.	Consent to Establish is received from MPCB. Consent No.: Format 1.0/BO/CAC-cell/UAN No. 0000047395/Reval CE with exp/CAC- 1811000124 Dated 02.11.2018.
8.	All required sanitary and hygienic measures should be in place before starting construction activities and to be maintained throughout the construction phase.	Adequate numbers of toilets for Labour, provision of potable water etc. to maintain sanitary and hygienic measures are taken.
9.	Project proponent shall ensure completion of STP, MSW disposal facility, green belt development prior to occupation of the buildings. 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.	The provisions of STP, MSW disposal facility & Green Belt development will be completed before getting the Occupation certificate.
10.	Provision shall be made for the housing of construction labour within the site with all necessary infrastructure and facilities such as fuel for cooking, mobile toilets, mobile STP, safe drinking water, medical health care, crèche etc.	The provision for the construction labour within the site with all necessary infrastructure and facilities such as fuel for cooking, mobile toilets, mobile STP, safe drinking water, medical health care, crèche etc. is made.
11.	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.	Adequate drinking water facility is provided for the workers at the site during construction phase. Toilets are provided for construction workers. Bins have been provided to dispose the municipal solid waste generated from labour camps.
12.	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.	The solid waste generated shall be properly collected and segregated and also being stored separately in two bin system. Biodegradable Waste of operation phase shall be processed in OWC and manure so obtained will be used for landscaping. Non-biodegradable Waste shall be

		managed through recyclers.
13.	Wet garbage should be treated by Organic Waste Converter and treated waste (Manure) should be utilized in existing premise for gardening. And no wet garbage will be disposed outside the premises. Local authority should ensure this.	Wet garbage will be treated by Organic Waste Converter with curing system and manure shall be used for gardening.
14.	Arrangement shall be made that waste water and storm water do not get mixed.	Separate confined sewage system has been proposed which is connected to STP for the treatment and reuse of the treated water. Excess treated water shall be disposed off into the sewer drain. Storm water drain shall be in covered drain system and will be connected to municipal drain. Separate tanks for waste water and Rain water harvested are being constructed.
15.	All the topsoil excavated during construction activities should be stored for use in horticulture / landscape development within the project site.	Excavated topsoil is used for landscaping from time to time.
16.	Additional soil for leveling 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.	The cut & fill is minimum to the extent possible. The cut & fill is accordance with the natural contour and it will be maintained in such a way that the natural drainage will not disturb. There will not be import and export of soil from site.
17.	Green Belt Development shall be carried out considering CPCB guidelines including selection of plant species and in consultation with the local DFO/Agriculture Dept.	<ul style="list-style-type: none"> • The green area proposed is 10,378 m². Accordingly same will be provide as per approved plan. • A combination of native evergreen trees and ornamental flowering trees, shrubs and palms are planned in the complex. • There will be tree plantation of about 411 nos. • Plantation Details: Species will be selected as per CPCB greenbelt guidelines and common species available in the proposed area.
18.	Disposal of muck during construction phase should not create any adverse effect on the neighboring communities and be disposed taking the necessary precautions for general safety and health aspects of people, only in approved sites	All construction waste gets collected and segregated properly. Most of that is reused for the construction activity. Muck will be dried before its final disposal.

	with the approval of competent authority.	
19.	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.	Soil testing was done and according to the reports all the parameters are within the prescribed norms.
20.	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.	<ul style="list-style-type: none"> • There will be no generation of hazardous waste at site. Proper care would be taken following the norms to handle and use the bituminous and other hazardous material at site. • Also silt traps and other measures such as additional on-site will be constructed to control surface Run-off.
21.	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.	Used oil would be generated from the site, will be disposed through Authorized vendor of MPCB.
22.	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.	DG set installed as per specifications & meeting CPCB norms.
23.	The diesel required for operating DG sets shall be stored in underground tanks and if required. Clearance from concern authority shall be taken.	The diesel required for the operation phase will be stored as per the provision of petroleum act.
24.	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.	The PUC checked/authorized vehicles are allowed on the site for transfer of material.
25.	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.	<p>Following care are taken regarding noise levels with conformation to the residential area.</p> <ol style="list-style-type: none"> 1. Use of well-maintained equipment fitted with silencers. 2. Noise shields near the heavy construction operations are provided. 3. Construction activities are limited to

		<p>daytime hours only.</p> <p>Also use of Personal Protective Equipment (PPE) like ear muffs and ear plug during construction activities.</p> <p>The ambient air and noise report is enclosed herewith. The report indicates that the same are within the prescribed norms defined by the concern authority.</p>
26.	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).	Yes, Ready mixed concrete added with fly ash is being used in the construction.
27.	Ready mixed concrete must be used in building construction.	Yes, Ready mixed concrete added with fly ash is being used in the construction.
28.	The approval of competent authority shall be obtained for structural safety of the buildings due to any possible earthquake, adequacy of fire lighting equipment's etc. as per National Building Code including measures from lighting.	The NBC and other norms for the safety of the building are being followed.
29.	Storm water control and its re-use as per CGWB and BIS standards for various applications.	<p>Rainwater from terraces and other open area will be diverted to recharge pits for ground water recharge. The system shall be laid at appropriate time.</p> <p>4 nos. of rainwater harvesting tanks of 80 m³ capacity each.</p> <p>9 Nos. of recharge pits of 1.5 m dia.</p>
30.	Water demand during construction should be reduced by use of pre-mixed concrete, curing agents and other best practices referred.	Ready mix concrete is being used to reduce water demand during construction.
31.	The ground water level and its quality should be monitored regularly in consultation with Ground water Authority.	There is no extraction of ground water in this project. The ground water levels and its quality are checked before commencement of the project. The copy of the same is enclosed herewith.

32.	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 Ministry 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.	STP with 300 KLD capacity has been proposed. Construction and installation of STP shall be carried out by expert consultant. Treated water shall be used for the flushing and Gardening, Landscaping and Green belt area development. After the satisfactory completion of the work the installation will be get certified from independent expert and report in this regard will be submitted to the Ministry before the project is commissioned for operation.
33.	Local body should ensure that no occupation certification is issued prior to operation of STP/MSW site etc. with due permission of MPCB.	No occupation certification is issued prior to operation of STP/MSW site etc. with due permission of MPCB.
34.	Permission to draw ground water shall be obtained from the competent Authority prior to construction/operation of the project	We are not drawing any water from ground. We are using only Tanker water for construction.
35.	Separation of gray and black water should be done by the use of dual plumbing line for separation of gray and black water.	Yes, water will be separated by the use of dual plumbing line.
36.	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.	Adequate measures will be taken into consideration to minimize the wastage of water.
37.	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.	Glazing area will be maintained below 40% of the façade area for the residential buildings.
38.	Roof should meet prescriptive requirement as per Energy Conservation Building Code by using appropriate thermal insulation material to fulfill requirement.	<ul style="list-style-type: none"> • Roof insulation 50 mm expanded polystyrene or equivalent insulation. • Heat reflective double glazed glass provided on external façade for the residential buildings.

39.	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.	A separate energy conservation report attached with this report.
40.	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.	<ul style="list-style-type: none"> • D.G. sets will be provided as back up for alternative electrical supply to Residential buildings. • 400 KVA D.G. set is proposed with silencer & acoustic enclosures. The stacks shall be provided as per MPCB norms.
41.	Noise should be controlled to ensure that it does not exceed the prescribed standards. During nighttime the noise levels measured at the boundary of the building shall be restricted to the permissible levels to comply with the prevalent regulations.	<p>Noise level monitoring is carried out regularly as per requirement. The noise levels measures are within the prescribed limits for day and night time.</p> <p>Monitoring report of noise levels attached.</p>
42.	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.	<ul style="list-style-type: none"> • This effect would be prominent during construction as well as operation phase. The probability of inconvenience faced due to the frequency of truck movement during construction phase would be minimized by better control of traffic movement in the area. Noise levels expected from the planned operating conditions have been assessed and are likely to be within acceptable levels. The impacts have been mitigated by the suggested measures in the "air control and

		<p>management section".</p> <ul style="list-style-type: none"> • Anti honking sign boards are placed in the parking areas and on entry and exit point. The project will be provided with sufficient road facilities within the project premises and there will be a large area provided for the parking of vehicles. • Width of all internal roads (m): Minimum 6.00 m. wide road • Parking Details: Captive: 1132 Nos. MCGM: 2500 Nos.
43.	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 aspirational for non-air-conditioned spaces by use of appropriate thermal insulation material to fulfill requirement.	Efforts for the Opaque wall will meet prescriptive requirement as per draft Energy Conservation Building Code by use of appropriate thermal insulation material to fulfill requirement.
44.	The building should have adequate distance between them to allow movement of fresh air and passage of natural light, air and ventilation.	The building has adequate distance to allow movement of fresh air and natural light, Ventilation.
45.	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.	Regular supervision done by our site engineer to take care of the construction activity and of the surroundings.
46.	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.	Environmental Clearance is already obtained. EC received date 19th Mar, 2012 (SEAC 2010/CR-3/TC2) for the total construction area 3,42,441.37 sq.m.
47.	Six monthly monitoring reports should be submitted to the Regional office MoEF, with copy to this department and MPCB.	Six monthly reports are submitted regularly to concerned department and MPCB.
48.	A complete set of all the documents submitted to Department should be forwarded to the Local authority and MPCB.	Complete set of all the documents submitted to the MPCB.

49.	In the case of any change(s) in the scope of the project, the project would require a fresh appraisal by this Department.	Condition is noted.																		
50.	A separate environment management cell with qualified staff shall be set up for implantation of the stipulated environmental safeguards.	Separate environment management cell with qualified staff is formed and implementing the same.																		
51.	Separate funds shall be allocated for implementation of environmental protection measures/EMP along with item-wise breaks-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.	<p>EMP cost has been worked out and allocated for all air pollution devices and other facilities.</p> <p>EMP cost:</p> <table border="1" data-bbox="959 665 1475 1240"> <thead> <tr> <th data-bbox="959 665 1177 836">Component</th> <th data-bbox="1177 665 1313 836">Capital Cost (Rs. In Lakhs)</th> <th data-bbox="1313 665 1475 836">O & M Cost (Rs. In Lakhs/Yr)</th> </tr> </thead> <tbody> <tr> <td data-bbox="959 836 1177 902">STP</td> <td data-bbox="1177 836 1313 902">60</td> <td data-bbox="1313 836 1475 902">8</td> </tr> <tr> <td data-bbox="959 902 1177 968">Solar Power</td> <td data-bbox="1177 902 1313 968">30</td> <td data-bbox="1313 902 1475 968">3</td> </tr> <tr> <td data-bbox="959 968 1177 1070">Landscape developments</td> <td data-bbox="1177 968 1313 1070">80</td> <td data-bbox="1313 968 1475 1070">10</td> </tr> <tr> <td data-bbox="959 1070 1177 1172">Solid waste management</td> <td data-bbox="1177 1070 1313 1172">25</td> <td data-bbox="1313 1070 1475 1172">5</td> </tr> <tr> <td data-bbox="959 1172 1177 1240">RWH</td> <td data-bbox="1177 1172 1313 1240">25</td> <td data-bbox="1313 1172 1475 1240">3</td> </tr> </tbody> </table>	Component	Capital Cost (Rs. In Lakhs)	O & M Cost (Rs. In Lakhs/Yr)	STP	60	8	Solar Power	30	3	Landscape developments	80	10	Solid waste management	25	5	RWH	25	3
Component	Capital Cost (Rs. In Lakhs)	O & M Cost (Rs. In Lakhs/Yr)																		
STP	60	8																		
Solar Power	30	3																		
Landscape developments	80	10																		
Solid waste management	25	5																		
RWH	25	3																		
52.	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 .	<p>The advertisement is published in English newspaper 'The Free Press' dtd. 31.05.2018 Respectively. Xerox copies of same are enclosed for your ready reference.</p> <p>Also, the advertisement is displayed on website of company.</p>																		
53.	Project management should submit half yearly compliance reports in respect of the stipulated prior environmental clearance terms and conditions in hard and soft copies to the MPCB and this department, on 1 st June and 1 st December of each calendar year.	We are regularly submitting six monthly reports to Nagpur, Mantralaya & MPCB.																		

54.	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.	Yes, we noted the condition & agreeable to the same.
55.	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 mainly; 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.	Regular monitoring is been carried out and the results of the same are submitted to concern authority along with the report.
56.	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 email) to the respective Regional Office of MoEF, the respective Zonal Office of CPCB and the SPCB.	Six monthly compliance reports are submitted to the Environment Department, Mantralaya & MPCB.
57.	The environmental statement for each financial year ending 31 st 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 is noted.
58.	The environmental clearance is being issued without prejudice to the action initiated under EP Act or any court case pending in the court of law and it does not mean that project proponent has not violated any environmental laws in the past and whatever decision under EP Act or of the Hon'ble court will be binding on the project proponent. Hence this clearance does not give	Condition is noted.

	immunity to the project proponent in the case filed against him, if any or action initiated under EP Act.	
59.	In case of submission of false document and non-compliance of stipulated conditions, Authority/ Environment Department will revoke or suspend the Environmental Clearance without any intimation and initiate appropriate legal action under Environmental Protection Act, 1986.	Yes, we noted the condition & agreeable to the same.
60.	The Environment department reserves the right to add any stringent condition or to revoke the clearance if conditions stipulated are not implemented to the satisfaction of the department or for that matter, for any other administrative reason.	Yes, we noted the condition & agreeable to the same.
61.	Validity of Environmental Clearance: The environmental clearance accorded shall be valid for the period of 5 years.	The Ec received File No. : SEAC 2010/CR-3/TC2 Dtd. 19.03.2012 and 7.04.2012. As per the circular dated 29 th April 2015 the validity of this EC will be 7 years from 7.04.2012.
62.	In case of any deviation or alteration in the project proposed from those submitted to this department for clearance, a fresh reference should be made to the department to assess the adequacy of the condition(s) imposed and to incorporate additional environmental protection measures required, if any.	Yes, we noted the condition and agreeable to the same.
63.	The above stipulations would be enforced among others under the Water (Prevention and Control of Pollution) Act, 1974, the Air (Prevention and Control of Pollution) Act. 1981, the Environment (Protection) Act, 1986 and rules there under. Hazardous Wastes (Management and Handling) Rules, 1989 and its amendments, the public Liability Insurance Act, 1991 and its amendments.	Yes, we noted the condition and agreeable to the same.
64.	Any appeal against this environmental clearance shall lie with the National Green Tribunal, Van Vigyan Bhawan, Sec- 5. R.K. Puram, New Delhi - 110 022, if preferred, within 30 days as prescribed under Section 16 of the National Green Tribunal Act, 2010.	Yes, we noted the condition & agreeable to the same.

**ENERGY
CONSERVATION
MEASURES**

Developer

M/S. Real Gem Build Tech Pvt. Ltd.,

Plot bearing F.P. No. 1043 of TPS IV Mahim Division at Gokhale Road,

Mumbai-400028.

ENERGY CONSERVATION MEASURES

- Efficient wall systems like solid blocks with fly ash content
- Energy efficient lighting using LED lamps in Lift Lobby, Toilets & Core area Passages
- Solar lighting for common area
- Solar hot water system to all buildings
- Controlling to lights through motion sensors for common area basement and time switch other common area lighting.
- Use of high energy efficient pumps for firefighting, UG tanks and STP
- APFC panel provided for common area load.
- VFD for Lifts & water supply pumps.

**HALF YEARLY POST ENVIRONMENTAL
MONITORING REPORT**

OF

“Orchid Crown”
RESIDENTIAL PROJECT

For

October, 2018 – March, 2019

Developer

M/S. Real Gem Build Tech Pvt. Ltd.,

Plot bearing F.P. No. 1043 of TPS IV Mahim Division at Gokhale Road,
Mumbai-400028.

Prepared by

ENVIRO ANALYSTS & ENGINEERS P. LTD.,



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Water Sample Analysis Report

Report No. - EAEPL/PM/RGBTPL/29-06/12/2018		Report Date - 05.01.2019	
Name of Customer	M/s. Real Gem Build Tech Pvt. Ltd.		
Site Address	"Orchid Crown" Plot F.P. No. 1043 of TPS IV, Mahim Division at Gokhale Road (South), Prabhadevi, Mumbai - 400 028		Reference - Verbal
Nature and Description of Sample	Borewell Water	Sample Collected by	EAEPL Laboratory
Sampling locations and Sample Code	1) PM/W/29-06/12/18 (Centreside of site)	Sample quantity and packing Preservation	2 L X 1 Nos. PVC Can. 500 mL X 1 No. Sterilised Glass Bottle. Cool - Transported and stored at 5 °C (± 1°C).
Date of Sampling	28.12.2018	Date of Receipt	29.12.2018
Sampling Procedure	Guideline for water quality monitoring- CPCB, 2007-08.		
Period of Analysis	29.12.2018 to 05.01.2019		
Report for the month	December, 2018		

Parameters	Unit	Results	IS 10500:2012 Limits		Method
			Acceptable Limit	Permissible Limit	
pH	-	7.43	6.5-8.5	No Relaxation	IS 3025 (Part 11) (1983)
TDS	mg / l	322.00	500	2000	IS 3025 (Part 16) (1984)
Dissolved Oxygen	mg / l	5.60	-	-	IS 3025 (Part 38) (1989)
Turbidity	NTU	0.05	1	5	IS 3025 (Part 10) (1984)
Chlorides as Cl	mg / l	52.48	250	1000	IS 3025 (Part 32) (1988)
Total Hardness	mg / l	146.00	200	600	IS 3025 (Part 21) (2009)
Calcium	mg / l	31.26	75	200	IS 3025 (Part 40) (1991)
Alkalinity	mg / l	67.50	200	600	IS 3025 (Part 23) (1986)
Residual chlorine	mg / l	< 0.20	0.20	1	IS 3025 (Part 26) (1986)
Sulphate	mg / l	21.08	200	400	IS 3025 (Part 24) (1986)
Nitrate	mg / l	0.97	45	No Relaxation	EPA 352.1
Fluoride	mg / l	0.52	1	1.5	APHA 4500 F-D (23 rd Edition)
Heavy Metals:					
Iron (Fe)	mg / l	0.112	0.3	No Relaxation	IS 3025 (Part 53) (2003)
Copper (Cu)	mg / l	0.014	0.05	1.5	IS 3025 (Part 42) 1992 Reaffirmed (2003)
Zinc (Zn)	mg / l	0.084	5	15	IS 3025 (Part 49) 1994 Reaffirmed (2003)
Lead (Pb)	mg / l	0.002	0.01	No Relaxation	IS 3025 (Part 47) 1994 Reaffirmed (2003)
Chromium (Cr)	mg / l	0.017	0.05	No Relaxation	APHA 3111 (22 nd Edition)
Microbiological Analysis:					
Total Coliform	MPN/100ml	3.00	Nil	Shall not be detectable in any 100ml sample	IS 1622:1981 Reaffirmed (1996)
E coli	MPN/100ml	Absent	Absent	Absent	IS 1622:1981 Reaffirmed (1996)

Remark: All the values are well within prescribed IS 10500:2012 Limits.

End

For M/s. ENVIRO ANALYSTS & ENGINEERS PVT.LTD.



Lab Incharge

Note: 1. The result mentioned above refers only to the tested sample(s) and applicable parameter(s).
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Ambient Air Quality Monitoring Report

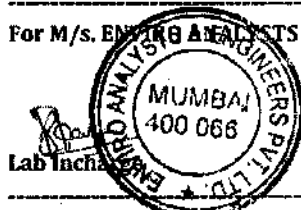
Report No. - EAEPL/PM/RGBTPL/29-05/12/2018		Report Date -05.01.2019	
Name of Customer	M/s. Real Gem Build Tech Pvt. Ltd.		
Site Address	"Orchid Crown" Plot F.P. No. 1043 of TPS IV, Mahim Division at Gokhale Road (South), Prabhadevi, Mumbai - 400 028		Reference -Verbal
Nature and Description of Sample	Ambient Air	Sample Collected by	EAEPL Laboratory
Sampling locations and Sample Code	1) PM/A/29-05/a,b/12/18 (Main Gate)	Sample quantity and packing	PM ₁₀ = 1 * 1 No. Filter paper. PM _{2.5} = 1 * 1 No. Filter paper SO _x = 1 * 1 No. PVC bottle. NO _x = 1 * 1 No. PVC bottle.
		Sample Preservation	Filter papers - Transported and stored in desiccator. PVC bottles - Transported and stored at 5°C (±1 °C).
Date of Sampling	28.12.2018	Date of Receipt	29.12.2018
Sampling Procedure	CPCB, Conceptual guidelines and common methodology for air quality monitoring, emission inventory & source apportionment studies for Indian cities, was referred while drafting this SOP.		
Period of Analysis	29.12.2018 to 05.01.2019		
Report for the month	December, 2018		

Environmental Conditions			
Ambient air Temperature (°C)	Relative humidity (%)	Duration of Monitoring	
28.0	69.0	8 Hours	
RESULTS			
Monitoring Locations	Main Gate	NAAQS LIMITS	METHOD
Pollution Parameters	PM/A/29-05/a,b/12/18		
R.S.P.M (PM ₁₀) (µg/m ³)	44.77	100 µg/m ³	CPCB Method (IS 5182 Part 23)
R.S.P.M (PM _{2.5}) (µg/m ³)	13.72	60 µg/m ³	CPCB Method (Gravimetric method, page no 15-28)
SO ₂ (µg/m ³)	14.56	80 µg/m ³	CPCB Method (IS 5182 Part-2)
NO _x (µg/m ³)	15.98	80 µg/m ³	CPCB Method (IS 5182 Part -6)

Remark: All the measured values are well within NAAQS limits.

End

For M/s. ENVIRO ANALYSTS & ENGINEERS PVT.LTD.



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Ambient Noise Level Monitoring Report

Report No. - EAEPL/PM/RGBTPL/29-08/12/2018		Report Date - 05.01.2019	
Name of Customer	M/s. Real Gem Build Tech Pvt. Ltd.		Reference - Verbal
Site Address	"Orchid Crown" Plot F.P. No. 1043 of TPS IV, Mahim Division at Gokhale Road (South), Prabhadevi, Mumbai - 400 028		
Nature and Description of Sample	Noise	Sample Collected by	EAEPL Laboratory
Sampling locations and Sample Code	1) PM/N/29-08/12/18	Sample quantity and packing	Not Applicable
Date of Sampling	28.12.2018	Date of Receipt	Not Applicable
Sampling Procedure	Environmental Noise Survey Guidance document by EPA. Noise pollution (Regulation and Control) Amendment Rule 2010.		
Period of Analysis	Not Applicable		
Report for the month	December, 2018		

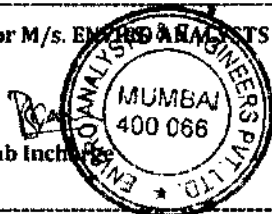
Monitoring Locations	Units	Results		CPCB Norms	
		Day Time	Night Time	Day	Night
Near Main gate	dB(A) Leq.	51.5	44.6	55	45
Near Southside of site	dB(A) Leq.	54.3	44.0	55	45
Near Centreside of site	dB(A) Leq.	54.8	43.6	55	45
Near Westside of site	dB(A) Leq.	53.6	43.9	55	45

Remark: The noise levels were observed to be within CPCB limits at all of the locations.

End

For M/s. ENVIRO ANALYSTS & ENGINEERS PVT.LTD.

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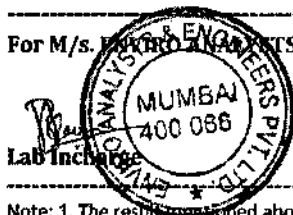
Soil Sample Analysis Report

Report No. - EAEPL/PM/RGBTPL/29-07/12/2018		Report Date - 05.01.2019	
Name of Customer	M/s. Real Gem Build Tech Pvt. Ltd.		
Site Address	"Orchid Crown" Plot F.P. No. 1043 of TPS IV, Mahim Division at Gokhale Road (South), Prabhadevi, Mumbai - 400 028		Reference - Verbal
Nature and Description of Sample	Soil	Sample Collected by	EAEPL Laboratory
Sampling locations and Sample Code	1) PM/S/29-07/12/18	Sample quantity and packing	500gm X 1 Zip lock bag
		Sample Preservation	Transported & stored in dry area.
Date of Sampling	28.12.2018	Date of Receipt	29.12.2018
Sampling Procedure	Characterization of Hazardous Waste Sites - A Methods Manual: Volume II. Available Sampling Methods, Second Edition. EPA 600/4-84-096. December 1984.		
Period of Analysis	29.12.2018 to 05.01.2019		
Report for the month	December, 2018		

Parameters	Unit	Results	Methods
pH	-	7.41	IS 2720 (Part 26):1987, Reaffirmed:2011 (Clause2-Electrometric Method)
EC	µS/cm	299.17	IS 14767:2000, Reaffirmed:2016
Organic Matter	%	2.95	IS 2720 (Part 22) - 1972 (Reaffirmed 2001)
Total Kjeldhal Nitrogen	mg/kg	907.04	IS 14684:1999 (Reaffirmed 2005)
Soil Moisture	%	13.28	IS 2720 (part02):1973 (Reaffirmed 2015) Oven drying method
Water Holding Capacity	%	34.22	EAEPL/LAB/SOP/SOIL/10
Available Phosphorus	mg/kg	1.80	EAEPL/LAB/SOP/SOIL/11
Calcium	mg/kg	2158.87	EPA 9080
Magnesium	mg/kg	121.44	EPA 9080
Chlorides	mg/kg	109.96	APHA 4500 Cl ⁻ B and ISRIC Soil analysis procedure, Page No:13-6
Sulphate	mg/kg	37.6	IS 3025 (Part 24):1986, (Water Extract 1:10)
Potassium (K)	mg/kg	2893.88	SW-846 Method 3050B
Sodium (Na)	mg/kg	3014.34	SW-846 Method 3050B
Heavy Metals:			
Copper	mg/kg	112.02	SW-846 Method 3050B
Iron	mg/kg	88714.93	SW-846 Method 3050B
Lead	mg/kg	98.74	SW-846 Method 3050B
Zinc	mg/kg	159.58	SW-846 Method 3050B

End

For M/s. **ENVIRO ANALYSTS & ENGINEERS PVT.LTD.**



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Water Sample Analysis Report

Report No. - EAEPL/PM/RGBTPL/09-15/03/2019		Report Date - 16.03.2019	
Name of Customer		M/s. Real Gem Build Tech Pvt. Ltd.	
Site Address		"Orchid Crown" Plot F.P. No. 1043 of TPS IV, Mahim Division at Gokhale Road (South), Prabhadevi, Mumbai - 400 028	
Nature and Description of Sample		Borewell Water	Sample Collected by EAEPL Laboratory
Sampling locations and Sample Code		1) PM/W/09-15/03/19 (Centreside of site)	Sample quantity and packing 2 L X 1 Nos. PVC Can. 500 mL X 1 No. Sterilised Glass Bottle.
Date of Sampling		08.03.2019	Preservation Cool - Transported and stored at 5 °C (± 1°C).
Sampling Procedure		Guideline for water quality monitoring- CPCB, 2007-08.	
Period of Analysis		09.03.2019 to 16.03.2019	
Report for the month		March, 2019	

Parameters	Unit	Results	IS 10500:2012 Limits		Method
			Acceptable Limit	Permissible Limit	
pH	-	7.36	6.5-8.5	No Relaxation	IS 3025 (Part 11) (1983)
TDS	mg / l	310.00	500	2000	IS 3025 (Part 16) (1984)
Dissolved Oxygen	mg / l	5.20	-	-	IS 3025 (Part 38) (1989)
Turbidity	NTU	0.05	1	5	IS 3025 (Part 10) (1984)
Chlorides as Cl	mg / l	58.34	250	1000	IS 3025 (Part 32) (1988)
Total Hardness	mg / l	140.00	200	600	IS 3025 (Part 21) (2009)
Calcium	mg / l	26.45	75	200	IS 3025 (Part 40) (1991)
Alkalinity	mg / l	65.00	200	600	IS 3025 (Part 23) (1986)
Residual chlorine	mg / l	< 0.10	0.20	1	IS 3025 (Part 26) (1986)
Sulphate	mg / l	19.10	200	400	IS 3025 (Part 24) (1986)
Nitrate	*mg / l	0.84	45	No Relaxation	EPA 352.1
Fluoride	mg / l	0.48	1	1.5	IS 3025 (Part 60) (2008)
Heavy Metals:					
Iron (Fe)	mg / l	0.108	0.3	No Relaxation	IS 3025 (Part 53) (2003)
Copper (Cu)	mg / l	0.012	0.05	1.5	IS 3025 (Part 42) 1992 Reaffirmed (2003)
Zinc (Zn)	mg / l	0.080	5	15	IS 3025 (Part 49) 1994 Reaffirmed (2003)
Lead (Pb)	mg / l	0.001	0.01	No Relaxation	IS 3025 (Part 47) 1994 Reaffirmed (2003)
Chromium (Cr)	mg / l	0.016	0.05	No Relaxation	APHA 3111 (22 nd Edition)
Microbiological Analysis:					
Total Coliform	MPN/100ml	3.00	Nil	Shall not be detectable in any 100ml sample	IS 1622:1981 Reaffirmed (1996)
E coli	MPN/100ml	Absent	Absent	Absent	IS 1622:1981 Reaffirmed (1996)

Remark: All the values are well within prescribed IS 10500:2012 Limits.

End

For M/s. ENVIRO ANALYSTS & ENGINEERS PVT. LTD.

Lab Incharge

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Ambient Air Quality Monitoring Report

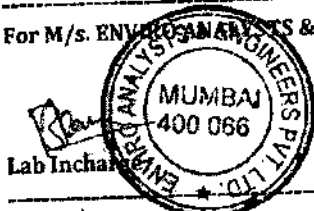
Report No. - EAEPL/PM/RGBTPL/09-14/03/2019		Report Date -16.03.2019	
Name of Customer	M/s. Real Gem Build Tech Pvt. Ltd.		Reference -Verbal
Site Address	"Orchid Crown" Plot F.P. No. 1043 of TPS IV, Mahim Division at Gokhale Road (South), Prabhadevi, Mumbai - 400 028		
Nature and Description of Sample	Ambient Air	Sample Collected by	EAEPL Laboratory
Sampling locations and Sample Code	1)PM/A/09-14/a,b,c,d/03/19 (Main Gate)	Sample quantity and packing	PM ₁₀ = 1 * 1 No. Filter paper. PM _{2.5} = 1 * 1 No. Filter paper SOx = 1 * 1 No. PVC bottle. NOx = 1 * 1 No. PVC bottle.
		Sample Preservation	Filter papers - Transported and stored in desiccator. PVC bottles - Transported and stored at 5°C (±1 °C).
Date of Sampling	08.03.2019	Date of Receipt	09.03.2019
Sampling Procedure	CPCB, Conceptual guidelines and common methodology for air quality monitoring, emission inventory & source apportionment studies for Indian cities, was referred while drafting this SOP.		
Period of Analysis	09.03.2019 to 16.03.2019		
Report for the month	March, 2019		

Environmental Conditions			
Ambient air Temperature (°C)	Relative humidity (%)	Duration of Monitoring	
30.0	58.0	8 Hours	
RESULTS			
Monitoring Locations	Main Gate	NAAQS LIMITS	METHOD
Pollution Parameters	PM/A/09-14/a,b,c,d/03/19		
R.S.P.M (PM ₁₀) (µg/m ³)	43.66	100 µg/m ³	IS 5182 Part 23
R.S.P.M (PM _{2.5}) (µg/m ³)	16.22	60 µg/m ³	CPCB Method (Gravimetric method, page no 15-28)
SO ₂ (µg/m ³)	14.68	80 µg/m ³	IS 5182 Part 2
NOx (µg/m ³)	16.20	80 µg/m ³	IS 5182 Part 6

Remark: All the measured values are well within NAAQS limits.

End

For M/s. ENVIRO ANALYSTS & ENGINEERS PVT.LTD.



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Ambient Noise Level Monitoring Report

Report No. - EAEPL/PM/RGBTPL/09-17/03/2019			Report Date - 16.03.2019	
Name of Customer	M/s. Real Gem Build Tech Pvt. Ltd.			Reference -Verbal
Site Address	"Orchid Crown" Plot F.P. No. 1043 of TPS IV, Mahim Division at Gokhale Road (South), Prabhadevi, Mumbai - 400 028			
Nature and Description of Sample	Noise	Sample Collected by	EAEPL Laboratory	
Sampling locations and Sample Code	1) PM/N/09-17/03/19	Sample quantity and packing	Not Applicable	
Date of Sampling	08.03.2019	Date of Receipt	Not Applicable	
Sampling Procedure	Environmental Noise Survey Guidance document by EPA. Noise pollution (Regulation and Control) Amendment Rule 2010.			
Period of Analysis	Not Applicable			
Report for the month	March, 2019			

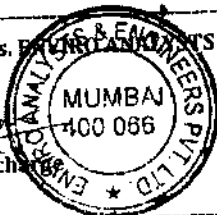
Monitoring Locations	Units	Results		CPCB Norms	
		Day Time	Night Time	Day	Night
Near Main gate	dB(A) Leq.	53.7	43.9	55	45
Near Southside of site	dB(A) Leq.	54.1	43.8	55	45
Near Centreside of site	dB(A) Leq.	54.2	43.4	55	45
Near Westside of site	dB(A) Leq.	53.7	43.2	55	45

Remark: The noise levels were observed to be within CPCB limits at all of the locations.

End

For M/s. Enviro Analysts & Engineers Pvt. Ltd.

Lab Incharge



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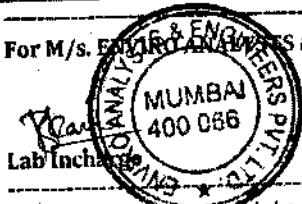
Soil Sample Analysis Report

Report No. - EAEPL/PM/RGBTPL/09-16/03/2019		Report Date - 16.03.2019	
Name of Customer	M/s. Real Gem Build Tech Pvt. Ltd.		
Site Address	"Orchid Crown" Plot F.P. No. 1043 of TPS IV, Mahim Division at Gokhale Road (South), Prabhadevi, Mumbai - 400 028		Reference -Verbal
Nature and Description of Sample	Soil	Sample Collected by	EAEPL Laboratory
Sampling locations and Sample Code	1) PM/S/09-16/03/19	Sample quantity and packing	500gm X 1 Zip lock bag
		Sample Preservation	Transported & stored in dry area.
Date of Sampling	08.03.2019	Date of Receipt	09.03.2019
Sampling Procedure	Characterization of Hazardous Waste Sites - A Methods Manual: Volume II. Available Sampling Methods, Second Edition. EPA 600/4-84-096. December 1984.		
Period of Analysis	09.03.2019 to 16.03.2019		
Report for the month	March, 2019		

Parameters	Unit	Results	Methods
pH	-	7.36	IS 2720 (Part 26):1987, Reaffirmed:2011 (Clause2-Electrometric Method)
EC	µS/cm	302.64	IS 14767:2000, Reaffirmed:2016
Organic Matter	%	2.56	IS 2720 (Part 22) - 1972 (Reaffirmed 2001)
Total Kjeldhal Nitrogen	mg/kg	812.49	IS 14684:1999 (Reaffirmed 2005)
Soil Moisture	%	14.62	IS 2720 (part02):1973 (Reaffirmed 2015) Oven drying method
Water Holding Capacity	%	35.48	EAEPL/LAB/SOP/SOIL/10
Available Phosphorus	mg/kg	1.62	EAEPL/LAB/SOP/SOIL/11
Calcium	mg/kg	2089.66	EPA 9080
Magnesium	mg/kg	118.34	EPA 9080
Chlorides	mg/kg	98.98	APHA 4500 Cl ⁻ B and ISRIC Soil analysis procedure, Page No:13-6
Sulphate	mg/kg	36.40	IS 3025 (Part 24):1986, (Water Extract 1:10)
Potassium (K)	mg/kg	2957.68	SW-846 Method 3050B
Sodium (Na)	mg/kg	3126.47	SW-846 Method 3050B
Heavy Metals:			
Copper	mg/kg	100.56	SW-846 Method 3050B
Iron	mg/kg	86489.34	SW-846 Method 3050B
Lead	mg/kg	100.12	SW-846 Method 3050B
Zinc	mg/kg	145.66	SW-846 Method 3050B

End

For M/s. Enviro Analysts & Engineers Pvt. Ltd.



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Government of Maharashtra

SEAC 2010/CR-3/TC2
Environment department,
Room No. 217, 2nd floor,
Mantralaya Annexe,
Mumbai 400 032
Date: 7th April, 2012

To,
M/s. Real Gem Build Tech Pvt. Ltd.
DB House, General A. K. Vaidya Marg,
Goregaon (E), Mumbai - 63
Tel. No. : 022 - 40778402/431
Email: rajan.chourse@dbg.co.in

Subject: Construction of residential building "Orchid Crown" and MCGM parking lot at plot no. 1043, Prabhadevi, Mumbai M/s Real Gem Build Tech Pvt. Ltd. (DB Group). - Environmental clearance regarding.

Reference- Even number environment clearance letter dated 19th March, 2012

Sir,

This has reference to your communication letter dated 26th March, 2012 on the above mentioned subject.

2. Project information from documents submitted by you & considered by SEAC & SEIAA was summarized in even number environment clearance letter dated 19th March, 2012.

Information on following points is modified as-

- Condition No. : 3 (iii) is deleted

3. Project information of all other points is as per minutes of SEIAA. Terms and conditions stipulated in even number environment clearance letter dated 19th March, 2012 remains the same.


(Valsa R Nair Singh)
Secretary, Environment
department & MS, SEIAA

Copy to:

1. Shri. P.M.A Hakeem, IAS (Retd.), Chairman, SEIAA, 'Jugnu' Kottaram Road, Calicut- 673 006 Kerala.
2. Shri. Dr. S. Devotta, Chairman, SEAC, T2/302 Sky City, Vanagaram - Ambattur Road, Chennai - 600 095

3. Additional Secretary, MOEF, 'Paryavaran Bhawan' CGO Complex, Lodhi Road, New Delhi - 110510
4. Member Secretary, Maharashtra Pollution Control Board, with request to display a copy of the clearance.
5. The CCF, Regional Office, Ministry of Environment and Forest (Regional Office, Western Region, Kendriya Paryavaran Bhavan, Link Road No- 3, E-5, Ravi-Shankar Nagar, Bhopal- 462 016). (MP).
6. Regional Office, MPCB, Mumbai.
7. Collector, Mumbai.
8. Commissioner, Brihan Mumbai Municipal Corporation, Mumbai.
9. IA- Division, Monitoring Cell, MoEF, Paryavaran Bhavan, CGO Complex, Lodhi Road, New Delhi-110003.
10. Director (TC-1), Dy. Secretary (TC-2), Scientist-1, Environment Department.
11. Select file (TC-3).

Government of Maharashtra

File No.: SEAC 2010/CR-3/TC2
 Environment department,
 Room No. 217, 2nd floor,
 Mantralaya Annex,
 Mumbai 400 032
 Date: 19th March, 2012

To,
 M/s. Real Gem Build Tech Pvt. Ltd.
 DB House, General A. K. Vaidya Marg,
 Goregaon (E), Mumbai - 63
 Tel. No. : 022 - 40778402/431
 Email: mjan.shourse@dbg.co.in

Subject: Construction of residential building "Orchid Crown" and MCGM parking lot at plot no. 1043, Prabhadevi, Mumbai M/s Real Gem Build Tech Pvt. Ltd. (DB Group). - Environmental clearance regarding.

Sir,

This has reference to your communication on the above mentioned subject. The proposal was considered as per the EIA Notification - 2006, by the State Level Expert Appraisal Committee, Maharashtra in its 28th, 34th, 37th, 44th meetings and decided to recommend the project for prior environmental clearance to SELAA. Information submitted by you has been considered by State Level Environment Impact Assessment Authority in its 10th, 41st, 42nd & 44th meetings.

2. It is noted that the proposal is for grant of Environmental Clearance for Construction of residential building "Orchid Crown" and MCGM parking lot at plot no. 1043, Prabhadevi, Mumbai M/s Real Gem Build Tech Pvt. Ltd. (DB Group). SEAC considered the project under screening category R (b) as per EIA Notification 2006.

Brief information of the project is summarized as below-

Name of the Project	: "Orchid Crown"				
Project Proposer	: Real Gem Build Tech Pvt. Ltd.				
Location of the project	: Plot bearing F.P. No. 1043 of TPE IV Mahim Division at Gokhale Road, Mumbai - 400 028.				
Type of Project	: Construction Residential Building				
Plot Area	: Gross Plot Area 24,809.75 m ² Net Plot Area 23,166.97 m ²				
Proposed Total built up area	: Permissible FSI (including TDR etc.) : 93,166.06 m ² 2 nos. of Basement - 41,872.78 m ²				
	Sr	Particulars	FSI Area m²	Non FSI Area m²	Total Area m²
	1	Residential Buildings	93,166.06	64,926.58	1,57,692.64
	2	Basement	-	41,872.78	41,872.78
	3	MCGM Parking	-	1,21,939.95	1,21,939.95



		Area				
	4	Total Construction Area			3,21,505.37	
Estimated cost of the project	Rs 579 Crores					
No. of Buildings		Sr	Building Name	No of Storey	Tenements	Height (m)
		1	Tower A	2B+Grd+60	174	314.10
		2	Tower B	2B+Grd+60	174	320.10
		3	Tower C	2B+Grd+51	102	276.30
		4	Municipal Car Parking	G+14		49.50
Height of building	Max height: 320.10 m					
Water Requirement		a. Fresh Water Source	212 m ³ /day, Source :MCGM			
		b. Recycled Water				
		• Flushing (MLD)	Flushing: 120 m ³ /day			
		• Gardening (MLD)	Gardening 52 m ³ /day			
		c. Swimming pool makeup	4 m ³ /day			
Rain water harvesting	<ul style="list-style-type: none"> • 4 nos. of rainwater harvesting tanks of 80 m³ capacity each • 9 Nos. of recharge pits of 1.5 m dia 					
Wastewater generated	1060 m ³ /day					
Capacity of STP	Capacity of STP: 300 KLD, STP Technology: MBR					
Solid Waste Generation	Dry quantity : 750 kg/day Wet quantity : 500 kg/day STP Sludge : 3 m ³ /day					
Disposal	Dry garbage will be segregated & disposed off to recyclers. Wet garbage will be composted using vermin composting and used as organic manure for landscaping. Dry sludge can be used as manure for plantation & Gardening purposes inside the premises.					
Energy	13.50 MW, Source : BSES DG Set: 400 KVA, will be used as alternate supply for essential services.					
Energy Conservation	<ul style="list-style-type: none"> • Solar Hot Water systems for Residential buildings. • Solar Panel lights will be installed for common facilities wherever possible. • Solar street lights are proposed for common areas such as open spaces, pathways, etc. 					
Traffic Management		Captive Parking area	34,420.28 m ²			
		a. 2-Wheeler	-			
		b. 4-Wheeler	1132 Nos.			
		c. Public Transport				
		Width of all internal roads	6 mts			
		MCGM Parking area	1,21,939.93 m ²			
		a. 2-Wheeler	-			
		b. 4-Wheeler	2360 Nos.			

	c. Public Transport		
	Width of all internal roads	6 mts	
Green Belt Development KMP	Total R.G. area : 10,378 m ²		
	Trees inside the plot : 411 Nos.		
	Component	Capital Cost (in Lakhs)	O & M (Lakhs / Year)
	STP (Tertiary)	60	8
	Solar Power	30	3
	Landscape Development	80	10
	Solid Waste Management	25	5
Rain water harvesting	25	3	
Total	220	38.5	

3. The proposal has been considered by SEIAA in its 44th meeting & decided to accord environmental clearance to the said project under the provisions of Environment Impact Assessment Notification, 2006 subject to implementation of the following terms and conditions :-

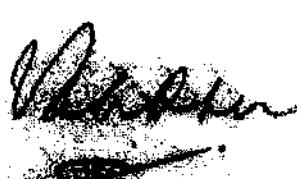
- (i) This environmental clearance is issued subject to condition that, if the municipal parking scheme finally undergoes any change or if any other parameter having an impact on the project changes, the project proponent should approach the SEIAA for amendment of EC.
- (ii) Project proponent should make a sincere effort to see if part of the RO can still be located on the ground. Local authority should ensure this while approving the plans.
- (iii) This environmental clearance is only for building up to 62m height. Local Authority should ensure this and verify if any NOC required by project proponent while approving the plans.
- (iv) The proposed height of the building requires NOC from High Rise Committee (HRC), Chief Fire Officer (CFO) & Civil Aviation authority. If there is any change in the plans suggested by above mentioned authorities, Project proponent should approach SEIAA with corrected building plans.
- (v) This environmental clearance is issued subject to land use verification. Local authority / planning authority should ensure this with request to Rules, Regulations, Notifications, Government Resolutions, Circulars, etc. issued if any. This environmental clearance issued with respect to the environmental consideration and it does not mean that State Level Impact Assessment Authority (SLIAA) approved the proposed land use.
- (vi) 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 issuing 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.
- (vii) "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.
- (viii) All required sanitary and hygienic measures should be in place before starting construction activities and to be maintained throughout the construction phase.
- (ix) Project proponent shall ensure completion of STP, MSW disposal facility, green belt development prior to occupation of the buildings. 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.

[Handwritten Signature]

[Handwritten Signature]

- (x) Provision shall be made for the housing of construction equipment in the site with necessary infrastructure and facilities such as fuel for engines, mobile toilets, mobile STP, safe drinking water, medical health care, crèche and first aid kit.
- (xi) 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.
- (xii) The solid waste generated should be properly collected and segregated, dry/ inert and waste should be disposed off to the approved sites for land filling after recovering recyclable material.
- (xiii) Wet garbage should be treated by Organic Waste Converter and treated waste (mud) should be utilized in the existing premises for gardening. And, the wet garbage will be disposed outside the premises. Local authority should ensure this.
- (xiv) Arrangement shall be made that waste water and storm water do not get mixed.
- (xv) All the topsoil excavated during construction activities should be stored for use in horticulture / landscape development within the project site.
- (xvi) Additional soil for leveling of the proposed site shall be generated within the site (to the extent possible) so that natural drainage system of the area is protected and improved.
- (xvii) Green Belt Development shall be carried out considering CPCB guidelines including selection of plant species and in consultation with the local DFO/ Agriculture Dept.
- (xviii) Disposal of muck during construction phase should not create any adverse effect on the neighboring 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.
- (xix) 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.
- (xx) Construction spoils, including bituminous material and other hazardous material must not be allowed to contaminate water resources and the dumpsites for such material must be secured so that they should not leach into the ground water.
- (xxi) 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.
- (xxii) The diesel generator sets to be used during construction phase should be low sulphur diesel type and should conform to Environment (Protection) Rules prescribed for air and noise emission standards.
- (xxiii) The diesel required for operating DG sets shall be stored in underground tanks and if required, clearance from concern authority shall be taken.
- (xxiv) 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.
- (xxv) Ambient noise levels should conform to residential standards both during day and night. Incremental pollution levels 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.
- (xxvi) 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. (This above condition is applicable only if the project site is located within the 100Km of Thermal Power Stations).
- (xxvii) Ready mixed concrete must be used in building construction.

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- (xxxvii) The approval of competent authority shall be obtained for structural safety of the buildings due to any possible earthquake, adequacy of fire fighting equipments etc. as per National Building Code including measures from lightning.
- (xxxviii) Storm water control and its reuse as per CCWS and BIS standards for various applications.
- (xxxix) Water demand during construction should be reduced by use of pre-mixed concrete, curing agents and other best practices referred.
- (xl) The ground water level and its quality should be monitored regularly in consultation with Ground Water Authority.
- (xli) 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 Ministry before the project is commissioned for operation. Treated effluent emanating from STP shall be recycled/reused to the maximum extent possible. Treatment of 100% gray water by decentralized treatment should be done. Discharge of treated effluent shall conform to the norms and standards of the Maharashtra Pollution Control Board. Necessary measures should be made to mitigate the odour problem from STP.
- (xlii) Local body should ensure that no occupation certification is issued prior to operation of STP/MGW site etc. with due permission of MPCB.
- (xliii) Permission to draw ground water shall be obtained from the competent Authority prior to construction/operation of the project.
- (xliv) Separation of gray and black water should be done by the use of dual plumbing line for separation of gray and black water.
- (xlv) 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.
- (xlvi) 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.
- (xlvii) Roof should meet prescriptive requirement as per Energy Conservation Building Code by using appropriate thermal insulation material to fulfill requirement.
- (xlviii) 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/rule 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.
- (xli) Diesel power generating sets proposed as source of back up power for elevators and common area illumination during operation phase should be of enclosed type and conform to rules made under the Environment (Protection) Act, 1986. The height of stack of DG sets should be equal to the height needed for the combined capacity of all proposed DG sets. Use low sulphur diesel. The location of the DG sets may be decided with in consultation with Maharashtra Pollution Control Board.
- (xli) Noise should be controlled to ensure that it does not exceed the prescribed standards. During nighttime the noise levels measured at the boundary of the building shall be restricted to the permissible levels to comply with the prevalent regulations.
- (xlii) 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.
- (xliii) 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 aspirational for non-air conditioned space to use an application of thermal insulation material to fulfil requirement

- (xliii) The building should have adequate distance between them to allow maximum fresh air and passage of natural light, air and ventilation.
- (xliv) 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.
- (xlv) 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.
- (xlvii) Six monthly monitoring reports should be submitted to the Department and MPCB.
- (xlviii) A complete set of all the documents submitted to Department should be forwarded to the MPCB.
- (xlix) In the case of any change(s) in the scope of the project, the project would require a fresh appraisal by this Department.
- (i) A separate environment management cell with qualified staff shall be set up for implementation of the stipulated environmental safeguards.
- (ii) 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.
- (iii) 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://www.maharashtra.gov.in>.
- (iii) 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.
- (iv) 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.
- (iv) 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 MPCB. The criteria pollutant levels namely: SPM, RSPM, SO₂, NOx (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.
- (vi) 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 MPCB.
- (vii) The environmental statement for each financial year ending 31st March in Form-V as is prescribed 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 Office of MoEF by e-mail.



4. The environmental clearance is being issued without prejudice to the action initiated under EP Act or any court case pending in the court of law and it does not mean that project proponent has not violated any environmental laws in the past and whatever decision under EP Act or of the Hon'ble court will be binding on the project proponent. Hence this clearance does not give immunity to the project proponent in the case filed against him, if any or action initiated under EP Act.
5. In case of submission of false document and non compliance of stipulated conditions, Authority/ Environment Department will revoke or suspend the Environmental Clearance without any intimation and initiate appropriate legal action under Environmental Protection Act, 1986.
6. The Environment department reserves the right to add any stringent condition or to revoke the clearance if conditions stipulated are not implemented to the satisfaction of the department or for that matter, for any other administrative reason.
7. **Validity of Environment Clearance:** The environmental clearance accorded shall be valid for a period of 5 years.
8. In case of any deviation or alteration in the project proposed from those submitted to this department for clearance, a fresh reference should be made to the department to assess the adequacy of the condition(s) imposed and to incorporate additional environmental protection measures required, if any.
9. The above stipulations would be enforced among others under the Water (Prevention and Control of Pollution) Act, 1974, the Air (Prevention and Control of Pollution) Act, 1981, the Environment (Protection) Act, 1986 and rules there under, Hazardous Wastes (Management and Handling) Rules, 1989 and its amendments, the public Liability Insurance Act, 1991 and its amendments.
10. Any appeal against this environmental clearance shall lie with the National Green Tribunal . Van Vigyan Bhawan, Sec- 5, R.K. Puram, New Delhi - 110 022, if preferred, within 30 days as prescribed under Section 16 of the National Green Tribunal Act, 2010.


 (Valsa R. Pillay)
 Secretary, Environment
 department & M&A, SEIAA

Copy to:

1. Shri. P.M.A Hakeem, IAS (Retd.), Chairman, SEIAA, 'Juglu' Konarim Road, Calicut- 673 006 Kerala.
2. Shri. Dr. S. Devotta, Chairman, SEAC, T3/303 Sky City, Vengaloori -Ambattur Road, Chennai - 600 093
3. Additional Secretary, MOEF, 'Paryavaran Bhawan' CGO Complex, Lodhi Road, New Delhi - 110510
4. Member Secretary, Maharashtra Pollution Control Board, with request to display a copy of the clearance.
5. The OCF, Regional Office, Ministry of Environment and Forest (Regional Office, Western Region, Kendriya Paryavaran Bhawan, Link Road No- 3, E-5, Ravi Shankar Nagar, Bhopal- 462 016). (MP).

6. Regional Office, MRC, Mumbai.
7. Collector, Mumbai.
8. Commissioner, Brihan Mumbai Municipal Corporation, Mumbai.
9. (A)- Division, Monitoring Cell, MoEF, Paryavaran Bhawan, C-13 Complex, Lodhi Road, New Delhi-110003.
10. Director (TC-1), Dy. Secretary (TC-2), Scientist-1, Environment Department.
11. Select file (TC-3).

MAHARASHTRA POLLUTION CONTROL BOARD

Tel: 24010706/ 24010437
Fax: 24023516
Website: <http://mpcb.gov.in>
E-mail: cac-cell@mpcb.gov.in



Kalpataru Point, 2nd - 4th Floor
Opp. Cine Planet Cinema,
Near Sion Circle, Sion (E)
Mumbai-400 022.

No.: - Format 1.0/BO/CAC-cell/UAN No. 0000047395/Reval CE with exp/CAC- 1811000124 Date-02/11/2018

To,
M/s.Real Gem Build Tech Pvt. Ltd.,
Plot bearing F. P. no. 1043 of
TPS IV Mahim Division at Gokhale Road,
Mumbai -400028

Sub : Revalidation of Consent to Establish with expansion for construction of residential building Project & MCGM Parking lot in red category.

Ref : 1. Consent to Establish granted by Board vide no.BO/ROM/RO(P &P)/Mu-1437-10/CC-64 Dated 4.01.2011.
2. Environment Clearance accorded by Env. Dept., GoM vide No. SEAC-2010/CR-3/TC-2 dtd. 19.3.2012.
3. Minutes of Consent Appraisal Committee (CAC) meeting held on 11.9.2018.

Your application No. 0000047395 Dated 18.4.2018.

For: Revalidation of Consent to Establish with expansion Consent to Establish for construction of residential building project & MCGM Parking lot

under Section 25 of the Water (Prevention & Control of Pollution) Act, 1974 & under Section 21 of the Air (Prevention & Control of Pollution) Act, 1981 and Authorization under Rule 5 of the Hazardous Wastes (M, H & T M) Rules 2008 is considered and the consent is hereby granted subject to the following terms and conditions and as detailed in the schedule I, II, III & IV annexed to this order:

1. The Revalidation of Consent to Establish with expansion is granted for a period upto commissioning of project or 3.1.2021 whichever is earlier:
2. The capital investment of the project is Rs.950 Crs. (As per undertaking submitted by PP).
3. The Consent to Establish for construction of residential building project and MCGM parking lot named as M/s.Real Gem Build Tech Pvt. Ltd., "Orchid Crown", Plot bearing F. P. No. 1043 of TPS IV Mahim Division at Gokhale Road, Mumbai -400028 for Total Plot Area of 24,809.75 Sq. Mtrs. and Total construction BUA of 3,42,441.37 Sq. Mtrs including utilities and services.

4. Conditions under Water (P&CP), 1974 Act for discharge of effluent:

Sr. no.	Description	Permitted quantity of discharge (CMD)	Standards to be achieved	Disposal
1.	Trade effluent	Nil	NA	NA
2.	Domestic effluent	266 CMD	As per Schedule -I	The treated effluent shall be 60% recycled for secondary purposes such as toilet flushing, air conditioning, cooling tower make up, firefighting etc. and remaining shall be connected to the sewerage system provided by local body

M/s.Real Gem Build Tech Pvt. Ltd /Revalid CE with exp /UAN No. 0000047395

Page 1 of 7

5. Conditions under Air (P& CP) Act, 1981 for air emissions:

Sr. no.	Description of stack / source	Number of Stack	Standards to be achieved
1.	D.G. Sets (1500 KVA x 2 Nos)	2 Nos.	As per Schedule -II
2.	D.G. Sets (1250 KVA)	1 Nos	As per Schedule -II

6. Conditions under Municipal Solid Waste (Management and Handling) Rule, 2000.

Sr. no.	Type Of Waste	Quantity	Treatment	Disposal
1	Biodegradable	750 Kg/day	Will be treated in Organic Waste Digester/Biodigester	Used as Manure
2	Non-Biodegradable	500 Kg/day	---	Segregate and Hand over to Local Body for recycling
3	STP Sludge	3 Kg/day	-	Used as Manure

7. Conditions under Hazardous Waste (MH & TM) Rules, 2008 for treatment and disposal of hazardous waste

Sr. No.	Type Of Waste	Quantity	UOM	Treatment	Disposal
NIL					

8. This Board reserves the right to review, amend, suspend, revoke etc. this consent and the same shall be binding on the industry.
9. This consent should not be construed as exemption from obtaining necessary NOC/permission from any other Government agencies.
10. PP shall not take effective steps for increased BUA from 3,21,505.37 Sq. Mtrs to 4,53,057.90 Sq. Mtrs without obtaining amendment in Environmental Clearance from competent authority.
11. PP shall achieve the treated domestic effluent standard for the parameter BOD- 20 mg/lit.
12. The treated effluent shall be 60% recycled for secondary purposes such as toilet flushing, air conditioning, cooling tower make up, firefighting etc. and remaining shall be utilized on land for gardening.
13. PP shall install online monitoring system for BOD, TSS and flow at the outlet of STP.
14. PP shall submit BG of Rs. 25 Lakhs towards compliance of EC and Consent to Establish Condition.
15. PP shall install organic waste digester along with composting facility/biodigester (biogas) with composting facility for the treatment of wet garbage.
16. PP has obtained approval from MCGM vide No. SWM/000907/2018/G/S/CTY dated 21.6.2018 for transportation of construction & demolition waste from construction site to the designated filling & leveling site.
17. This consent is issued without prejudice to the order passed or may be passed by the Hon'ble Supreme Court of India in special leave petition (Civil No. D23708/2017)
18. PP shall comply conditions stipulated Environment Clearance accorded by Environmental Department, GoM vide No. vide No. SEAC-2010/CR-3/TC-2 dtd. 19.3.2012

For and on behalf of the
Maharashtra Pollution Control Board


(E. Rayendiran, IAS)
Member Secretary

Received Consent fee of -

Sr. No.	Amount (Rs.)	Transaction number	Date	Drawn On
1.	19,00,000/-	7606757	19.4.2018	HDFC Bank

Copy to:

1. Regional Officer, MPCB, Mumbai and Sub-Regional Officer, MPCB, Mumbai-I
- They are directed to submit compliance report regarding consent condition and also ensure the compliance of the consent conditions.
2. Chief Accounts Officer, MPCB, Mumbai.
3. CC/CAC desk- for record & website updation purposes.

Schedule-I

Terms & conditions for compliance of Water Pollution Control

- 1) A) Project Proponent has proposed to provide 3 Nos of Sewage Treatment Plants (STP)'s of adequate capacity of 100 CMD ie. Total capacity 300 CMD with MBR Technology.
- B) The Applicant shall operate the Sewage Treatment Plant (STP) to treat the sewage so as to achieve the following standards/ prescribed under EP Act, 1986 and Rules made there under from time to time, whichever is stringent.

Sr No.	Parameters	Standards prescribed by Board
		Limiting Concentration in mg/l, except for pH
01	BOD (3 days 27°C)	10
02	Suspended Solids	10
03	COD	50
04	Residual Chlorine	1ppm

- C) The treated effluent shall be 60% recycled for secondary purposes such as toilet flushing, air conditioning, cooling tower make up, firefighting etc. and remaining shall be connected to the sewerage system provided by local body. In no case, effluent shall find its way to any water body directly/indirectly at any time. Project proponent shall provide flow meter to ensure 60% recycling of treated sewage and shall maintain the record with data-logging system. **Project Proponent shall achieve the treated domestic effluent standard for the parameter BOD- 10 mg/lit. PP shall install online monitoring system installed for the parameters Flow, BOD, TSS at the outlet of STP and shall be connected to MPCB Server.**
- 2) The Board reserves its rights to review plans, specifications or other data relating to plant setup for the treatment of water, works for the purification thereof & the system for the disposal of sewage or trade effluent or in connection with the grant of any consent conditions. The Applicant shall obtain prior consent of the Board to take steps to establish the unit or establish any treatment and disposal system or extension or addition thereto.
- 3) The firm shall ensure replacement of pollution control system or its parts after expiry of its expected life as defined by manufacturer so as to ensure the compliance of standards and safety of the operation thereof.
- 4) The Applicant shall comply with the provisions of the Water (Prevention & Control of Pollution) Act,1974 and as amended, and other provisions as contained in the said act

Sr. no.	Purpose for water consumed	Water consumption quantity (CMD)
1.	Industrial Cooling, spraying in mine pits or boiler feed	0.00
2.	Domestic purpose	337
3.	Processing whereby water gets polluted & pollutants are easily biodegradable	0.00
4.	Processing whereby water gets polluted & pollutants are not easily biodegradable and are toxic	0.00

- 5) The Applicant shall provide Specific Water Pollution control system as per the conditions of EP Act, 1986 and rule made there under from time to time/ Environmental Clearance.

Schedule-II

Terms & conditions for compliance of Air & Noise Pollution Control:

1. As per your application, you have proposed to erect following stack (s) and to observe the following fuel pattern-

Sr. No.	Stack Attached To	APC System	Height in Mtrs.	Type of Fuel	Quantity & UoM
1.	D. G. Set (1500 KVA x 2 Nos)	Acoustic enclosure	5* each	HSD	245 Lit/Hr
2.	D. G. Set (1250 KVA)	Acoustic enclosure	5* each	HSD	

* above roof of the building in which it is installed

2. The applicant shall operate and maintain above mentioned air pollution control system, so as to achieve the level of pollutants to the following standards:

Particulate matter	Not to exceed	150 mg/Nm ³
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3. The Applicant shall obtain necessary prior permission for providing additional control equipment with necessary specifications and operation thereof or alteration or replacement alteration well before its life come to an end or erection of new pollution control equipment.
4. The Board reserves its rights to vary all or any of the condition in the consent, if due to any technological improvement or otherwise such variation (including the change of any control equipment, other in whole or in part is necessary).
5. Ambient noise level should be confirmed to prescribe standards both during day and night time. The ambient air and noise quality should be closely monitored during any construction phase in the premises.
6. **Conditions for utilities like Kitchen, Eating Places, Canteens:-**
- The kitchen shall be provided with exhaust system chimney with oil catcher connected to chimney through ducting.
 - The toilet shall be provided with exhaust system connected to chimney through ducting.
 - The air conditioner shall be vibration proof and the noise shall not exceed 68 dB(A).
 - The exhaust hot air from A.C. shall be attached to Chimney at least 5 mtrs. higher than the nearest tallest building through ducting and shall discharge into open air in such a way that no nuisance is caused to neighbors.



Schedule-III
Details of Bank Guarantees

Sr. No.	Consent (C to R)	Amt of BG Imposed	Submission Period	Purpose of BG	Compliance Period	Validity Date
1.	Consent to Establish	Rs.25 Lakh	15 Days	compliance of EC and consent to establish condition.	COU or 5 years whichever is earlier	Validity of Consent+ 4 months

** The above Bank Guarantee(s) shall be submitted by the applicant in favour of Regional Officer at the respective Regional Office within 15 days of the date of issue of Consent.

Existing BG obtained for above purpose if any may be extended for period of validity as above.

Schedule - IV

Conditions during construction phase:

a	During construction phase, applicant shall provide temporary sewage disposal and MSW facility for staff and worker quarters.
b	During construction phase, the ambient air and noise quality should be closely monitored to achieve Ambient Air Quality Standards and Noise by the project proponent through MoEF approved laboratory.
c	Noise should be controlled to ensure that it does not exceed the prescribed standards. During nighttime the noise levels measured at the boundary of the building shall be restricted to the permissible levels to comply with the prevalent regulations.

General Conditions:

- 1) The applicant shall provide facility for collection of environmental sampler and samples of trade and sewage effluents, air emissions and hazardous waste to the Board staff at the terminal or designated points and shall pay to the Board for the services rendered in this behalf.
- 2) Industry should monitor effluent quality, stack emissions and ambient air quality monthly/quarterly.
- 3) The applicant shall provide ports in the chimney/(s) and facilities such as ladder, platform etc. for monitoring the air emissions and the same shall be open for inspection to/and for use of the Board's Staff. The chimney(s) vents attached to various sources of emission shall be designated by numbers such as S-1, S-2, etc. and these shall be painted/ displayed to facilitate identification.
- 4) Whenever due to any accident or other unforeseen act or even, such emissions occur or is apprehended to occur in excess of standards laid down, such information shall be forthwith Reported to Board, concerned Police Station, office of Directorate of Health Services, Department of Explosives, Inspectorate of Factories and Local Body. In case of failure of pollution control equipments, the production process connected to it shall be stopped.
- 5) The applicant shall provide an alternate electric power source sufficient to operate all pollution control facilities installed to maintain compliance with the terms and conditions of the consent. In the absence, the applicant shall stop, reduce or otherwise, control production to abide by terms and conditions of this consent.
- 6) The firm shall submit to this office, the 30th day of September every year , the Environmental Statement Report for the financial year ending 31st March in the prescribed Form-V as per the provisions of rule 14 of the Environment (Protection) (Second Amendment) Rules, 1992.
- 7) The industry shall recycle/reprocess/reuse/recover Hazardous Waste as per the provision contain in the HW(MH&TM) Rules 2016, which can be recycled
- 8) /processed/reused/recovered and only waste which has to be incinerated shall go to incineration and waste which can be used for land filling and cannot be recycled/reprocessed etc should go for that purpose, in order to reduce load on incineration and landfill site/environment.
- 9) The industry should comply with the Hazardous and Other Wastes (M & TM) Rules, 2016 and submit the Annual Returns as per Rule 6(5) & 20(2) of Hazardous and Other Wastes (M & TM) Rules, 2016 for the preceding year April to March in Form-IV by 30th June of every year.
- 10) An inspection book shall be opened and made available to the Board's officers during their visit to the applicant.
- 11) Industry shall strictly comply with the Water (P&CP) Act, 1974, Air (P&CP) Act,1981 and Environmental Protection Act,1986 and industry specific standard under EP Rules 1986 which are available on MPCB website(www.mpcb.gov.in).
- 12) The industry shall constitute an Environmental cell with qualified staff/personnel/agency to see the day to day compliance of consent condition towards Environment Protection.
- 13) Separate drainage system shall be provided for collection of trade and sewage effluents. Terminal manholes shall be provided at the end of the collection system with arrangement for measuring the flow. No effluent shall be admitted in the pipes/sewers downstream of the terminal manholes. No effluent shall find its way other than in designed and provided collection system.

- 14) Neither storm water nor discharge from other premises shall be allowed to mix with the effluents from the factory.
- 15) The applicant shall install a separate meter showing the consumption of energy for operation of domestic and industrial effluent treatment plants and air pollution control system. A register showing consumption of chemicals used for treatment shall be maintained.
- 16) Conditions for D.G. Set
 - a) Noise from the D.G. Set should be controlled by providing an acoustic enclosure, or by treating the room acoustically.
 - b) Industry should provide acoustic enclosure for control of noise. The acoustic enclosure/ acoustic treatment of the room should be designed for minimum 25 dB (A) insertion loss or for meeting the ambient noise standards, whichever is on higher side. A suitable exhaust muffler with insertion loss of 25 dB (A) shall also be provided. The measurement of insertion loss will be done at different points at 0.5 meters from acoustic enclosure/room and then average.
 - c) Industry should make efforts to bring down noise level due to DG set, outside industrial premises, within ambient noise requirements by proper siting and control measures.
 - d) Installation of DG Set must be strictly in compliance with recommendations of DG Set manufacturer.
 - e) A proper routine and preventive maintenance procedure for DG set should be set and followed in consultation with the DG manufacturer which would help to prevent noise levels of DG set from deteriorating with use
 - f) D.G. Set shall be operated only in case of power failure.
 - g) The applicant should not cause any nuisance in the surrounding area due to operation of D.G. Set.
 - h) The applicant shall comply with the notification of MoEF dated 17.05.2002 regarding noise limit for generator sets run with diesel
- 17) The industry should not cause any nuisance in surrounding area.
- 18) The industry shall take adequate measures for control of noise levels from its own sources within the premises so as to maintain ambient air quality standard in respect of noise to less than 75 dB (A) during day time and 70 dB (A) during night time. Day time is reckoned in between 6 a.m. and 10 p.m. and night time is reckoned between 10 p.m. and 6 a.m.
- 19) The applicant shall maintain good housekeeping.
- 20) The applicant shall bring minimum 33% of the available open land under green coverage/ plantation. The applicant shall submit a statement on available open plot area, number of trees surviving as on 31st March of the year and number of trees planted by September end, with the Environment Statement.
- 21) The non-hazardous solid waste arising in the factory premises, sweepings, etc. be disposed of scientifically so as not to cause any nuisance / pollution. The applicant shall take necessary permissions from civic authorities for disposal of solid waste.
- 22) The applicant shall not change or alter the quantity, quality, the rate of discharge, temperature or the mode of the effluent/emissions or hazardous wastes or control equipments provided for without previous written permission of the Board. The industry will not carry out any activity, for which this consent has not been granted/without prior consent of the Board.
- 23) The industry shall ensure that fugitive emissions from the activity are controlled so as to maintain clean and safe environment in and around the factory premises.
- 24) The industry shall submit quarterly statement in respect of industries' obligation towards consent and pollution control compliance's duly supported with documentary evidences (format can be downloaded from MPCB official site).
- 25) The industry shall submit official e-mail address and any change will be duly informed to the MPCB.
- 26) The industry shall achieve the National Ambient Air Quality standards prescribed vide Government of India, Notification dt. 16.11.2009 as amended.
- 27) **The applicant shall obtain Consent to Operate from Maharashtra Pollution Control Board before commissioning of the project.**

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Place - Mumbai
Dated - 30th May 2018

PUBLIC NOTICE

M/s. Real Gem Tech Pvt. Ltd.
DB House, General A. K. Vaidya Marg,
Goregaon (E), Mumbai-63.

We M/s. Real Gem Tech Pvt. Ltd hereby brings to the notice of general public that its Proposed construction of residential "Orchid Crown" and MCGM Parking lot at plot no 1043, Prabhadevi, Mumbai, has been accorded environmental clearance by the Ministry of Environmental & Forest (MOEF) on 19th March 2012. Copies of clearance letter are available with the Maharashtra State Pollution Control Board and may also be seen on the web site of MOEF at <http://encs.maharashtra.gov.in>

Place Mumbai
Date 31.05.2018

PUBLIC NOTICE

Dr. M. Girish Chandra, Kangan

FREE PRESS



H. O. : B-1003, Enviro House, 10th Floor, Western Edge II, Western Express Highway, Borivali (E), Mumbai - 400 066.
 • Tel. : +91 22 2854 1647 / 48 / 49 / 67 / 68 • E-mail : info@eaepl.com • Website : www.eaepl.com

Water Sample Analysis Report

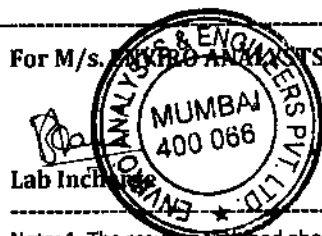
Report No. - EAEPL/PM/RGBTPL/29-06/12/2018		Report Date - 05.01.2019	
Name of Customer	M/s. Real Gem Build Tech Pvt. Ltd.		Reference - Verbal
Site Address	"Orchid Crown" Plot F.P. No. 1043 of TPS IV, Mahim Division at Gokhale Road (South), Prabhadevi, Mumbai - 400 028		
Nature and Description of Sample	Borewell Water	Sample Collected by	EAEPL Laboratory
Sampling locations and Sample Code	1) PM/W/29-06/12/18 (Centreside of site)	Sample quantity and packing	2 L X 1 Nos. PVC Can. 500 ml X 1 No. Sterilised Glass Bottle.
Date of Sampling	28.12.2018	Preservation	Cool -Transported and stored at 5 °C (± 1°C).
Sampling Procedure	Guideline for water quality monitoring- CPCB, 2007-08.		
Period of Analysis	29.12.2018 to 05.01.2019		
Report for the month	December, 2018		

Parameters	Unit	Results	IS 10500:2012 Limits		Method
			Acceptable Limit	Permissible Limit	
pH	-	7.43	6.5-8.5	No Relaxation	IS 3025 (Part 11) (1983)
TDS	mg / l	322.00	500	2000	IS 3025 (Part 16) (1984)
Dissolved Oxygen	mg / l	5.60	-	-	IS 3025 (Part 38) (1989)
Turbidity	NTU	0.05	1	5	IS 3025 (Part 10) (1984)
Chlorides as Cl	mg / l	52.48	250	1000	IS 3025 (Part 32) (1988)
Total Hardness	mg / l	146.00	200	600	IS 3025 (Part 21) (2009)
Calcium	mg / l	31.26	75	200	IS 3025 (Part 40) (1991)
Alkalinity	mg / l	67.50	200	600	IS 3025 (Part 23) (1986)
Residual chlorine	mg / l	< 0.20	0.20	1	IS 3025 (Part 26) (1986)
Sulphate	mg / l	21.08	200	400	IS 3025 (Part 24) (1986)
Nitrate	mg / l	0.97	45	No Relaxation	EPA 352.1
Fluoride	mg / l	0.52	1	1.5	APHA 4500 F-D (23 rd Edition)
Heavy Metals:					
Iron (Fe)	mg / l	0.112	0.3	No Relaxation	IS 3025 (Part 53) (2003)
Copper (Cu)	mg / l	0.014	0.05	1.5	IS 3025 (Part 42) 1992 Reaffirmed (2003)
Zinc (Zn)	mg / l	0.084	5	15	IS 3025 (Part 49) 1994 Reaffirmed (2003)
Lead (Pb)	mg / l	0.002	0.01	No Relaxation	IS 3025 (Part 47) 1994 Reaffirmed (2003)
Chromium (Cr)	mg / l	0.017	0.05	No Relaxation	APHA 3111 (22 nd Edition)
Microbiological Analysis:					
Total Coliform	MPN/100ml	3.00	Nil	Shall not be detectable in any 100ml sample	IS 1622:1981 Reaffirmed (1996)
E coli	MPN/100ml	Absent	Absent	Absent	IS 1622:1981 Reaffirmed (1996)

Remark: All the values are well within prescribed IS 10500:2012 Limits.

End

For M/s. Enviro Analysts & Engineers Pvt. Ltd.



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 Tel. : 022-2811 6442

Workshop :
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Water Sample Analysis Report

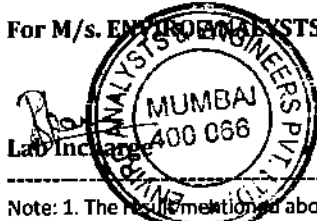
Report No. - EAEPL/PM/RGBTPL/29-06/12/2018			Report Date -05.01.2019		
Name of Customer		M/s. Real Gem Build Tech Pvt. Ltd.			Reference -Verbal
Site Address		"Orchid Crown" Plot F.P. No. 1043 of TPS IV, Mahim Division at Gokhale Road (South), Prabhadevi, Mumbai - 400 028			
Nature and Description of Sample		Borewell Water	Sample Collected by		EAEPL Laboratory
Sampling locations and Sample Code		1) PM/W/29-06/12/18 (Centreside of site)	Sample quantity and packing		2 L X 1 Nos. PVC Can. 500 mL X 1 No. Sterilised Glass Bottle.
			Preservation		Cool -Transported and stored at 5 °C (± 1°C).
Date of Sampling		28.12.2018	Date of Receipt		29.12.2018
Sampling Procedure		Guideline for water quality monitoring- CPCB, 2007-08.			
Period of Analysis		29.12.2018 to 05.01.2019			
Report for the month		December, 2018			

Parameters	Unit	Results	IS 10500:2012 Limits		Method
			Acceptable Limit	Permissible Limit	
pH	-	7.43	6.5-8.5	No Relaxation	IS 3025 (Part 11) (1983)
TDS	mg / l	322.00	500	2000	IS 3025 (Part 16) (1984)
Dissolved Oxygen	mg / l	5.60	-	-	IS 3025 (Part 38) (1989)
Turbidity	NTU	0.05	1	5	IS 3025 (Part 10) (1984)
Chlorides as Cl	mg / l	52.48	250	1000	IS 3025 (Part 32) (1988)
Total Hardness	mg / l	146.00	200	600	IS 3025 (Part 21) (2009)
Calcium	mg / l	31.26	75	200	IS 3025 (Part 40) (1991)
Alkalinity	mg / l	67.50	200	600	IS 3025 (Part 23) (1986)
Residual chlorine	mg / l	< 0.20	0.20	1	IS 3025 (Part 26) (1986)
Sulphate	mg / l	21.08	200	400	IS 3025 (Part 24) (1986)
Nitrate	mg / l	0.97	45	No Relaxation	EPA 352.1
Fluoride	mg / l	0.52	1	1.5	APHA 4500 F-D (23 rd Edition)
Heavy Metals:					
Iron (Fe)	mg / l	0.112	0.3	No Relaxation	IS 3025 (Part 53) (2003)
Copper (Cu)	mg / l	0.014	0.05	1.5	IS 3025 (Part 42) 1992 Reaffirmed (2003)
Zinc (Zn)	mg / l	0.084	5	15	IS 3025 (Part 49) 1994 Reaffirmed (2003)
Lead (Pb)	mg / l	0.002	0.01	No Relaxation	IS 3025 (Part 47) 1994 Reaffirmed (2003)
Chromium (Cr)	mg / l	0.017	0.05	No Relaxation	APHA 3111 (22 nd Edition)
Microbiological Analysis:					
Total Coliform	MPN/100ml	3.00	Nil	Shall not be detectable in any 100ml sample	IS 1622:1981 Reaffirmed (1996)
<i>E coli</i>	MPN/100ml	Absent	Absent	Absent	IS 1622:1981 Reaffirmed (1996)

Remark: All the values are well within prescribed IS 10500:2012 Limits.

-----End-----

For M/s. ENVIRO ANALYSTS & ENGINEERS PVT.LTD.



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Ambient Air Quality Monitoring Report

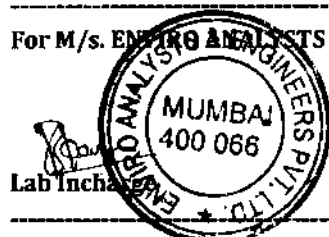
Report No. - EAEPL/PM/RGBTPL/29-05/12/2018		Report Date -05.01.2019	
Name of Customer	M/s. Real Gem Build Tech Pvt. Ltd.		
Site Address	"Orchid Crown" Plot F.P. No. 1043 of TPS IV, Mahim Division at Gokhale Road (South), Prabhadevi, Mumbai - 400 028		Reference - Verbal
Nature and Description of Sample	Ambient Air	Sample Collected by	EAEPL Laboratory
Sampling locations and Sample Code	1) PM/A/29-05/a,b/12/18 (Main Gate)	Sample quantity and packing	PM ₁₀ = 1 * 1 No. Filter paper. PM _{2.5} = 1 * 1 No. Filter paper SO _x = 1 * 1 No. PVC bottle. NO _x = 1 * 1 No. PVC bottle.
		Sample Preservation	Filter papers - Transported and stored in desiccator. PVC bottles - Transported and stored at 5°C (±1 °C).
Date of Sampling	28.12.2018	Date of Receipt	29.12.2018
Sampling Procedure	CPCB, Conceptual guidelines and common methodology for air quality monitoring, emission inventory & source apportionment studies for Indian cities, was referred while drafting this SOP.		
Period of Analysis	29.12.2018 to 05.01.2019		
Report for the month	December, 2018		

Environmental Conditions			
Ambient air Temperature (°C)	Relative humidity (%)	Duration of Monitoring	
28.0	69.0	8 Hours	
RESULTS			
Monitoring Locations	Main Gate	NAAQS LIMITS	METHOD
Pollution Parameters	PM/A/29-05/a,b/12/18		
R.S.P.M (PM ₁₀) (µg/m ³)	44.77	100 µg/m ³	CPCB Method (IS 5182 Part 23)
R.S.P.M (PM _{2.5}) (µg/m ³)	13.72	60 µg/m ³	CPCB Method (Gravimetric method, page no 15-28)
SO ₂ (µg/m ³)	14.56	80 µg/m ³	CPCB Method (IS 5182 Part-2)
NO _x (µg/m ³)	15.98	80 µg/m ³	CPCB Method (IS 5182 Part -6)

Remark: All the measured values are well within NAAQS limits.

End

For M/s. ENVIRO ANALYSTS & ENGINEERS PVT.LTD.



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Ambient Air Quality Monitoring Report

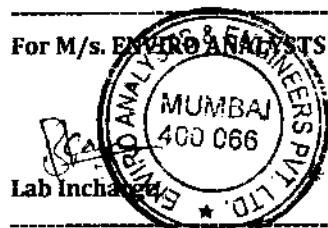
Report No. - EAEPL/PM/RGBTPL/29-05/12/2018		Report Date -05.01.2019	
Name of Customer	M/s. Real Gem Build Tech Pvt. Ltd.		
Site Address	"Orchid Crown" Plot F.P. No. 1043 of TPS IV, Mahim Division at Gokhale Road (South), Prabhadevi, Mumbai - 400 028		Reference -Verbal
Nature and Description of Sample	Ambient Air	Sample Collected by	EAEPL Laboratory
Sampling locations and Sample Code	1) PM/A/29-05/a,b/12/18 (Main Gate)	Sample quantity and packing	PM ₁₀ = 1 * 1 No. Filter paper. PM _{2.5} = 1 * 1 No. Filter paper SO _x = 1 * 1 No. PVC bottle. NO _x = 1 * 1 No. PVC bottle.
		Sample Preservation	Filter papers – Transported and stored in desiccator. PVC bottles - Transported and stored at 5°C (±1 °C).
Date of Sampling	28.12.2018	Date of Receipt	29.12.2018
Sampling Procedure	CPCB, Conceptual guidelines and common methodology for air quality monitoring, emission inventory & source apportionment studies for Indian cities, was referred while drafting this SOP.		
Period of Analysis	29.12.2018 to 05.01.2019		
Report for the month	December, 2018		

Environmental Conditions			
Ambient air Temperature (°C)	Relative humidity (%)	Duration of Monitoring	
28.0	69.0	8 Hours	
RESULTS			
Monitoring Locations	Main Gate	NAAQS LIMITS	METHOD
Pollution Parameters	PM/A/29-05/a,b/12/18		
R.S.P.M (PM ₁₀) (µg/m ³)	44.77	100 µg/m ³	CPCB Method (IS 5182 Part 23)
R.S.P.M (PM _{2.5}) (µg/m ³)	13.72	60 µg/m ³	CPCB Method (Gravimetric method, page no 15-28)
SO ₂ (µg/m ³)	14.56	80 µg/m ³	CPCB Method (IS 5182 Part-2)
NO _x (µg/m ³)	15.98	80 µg/m ³	CPCB Method (IS 5182 Part -6)

Remark: All the measured values are well within NAAQS limits.

-----End-----

For M/s. ENVIRO ANALYSTS & ENGINEERS PVT.LTD.



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Ambient Noise Level Monitoring Report

Report No. - EAEPL/PM/RGBTPL/29-08/12/2018			Report Date - 05.01.2019
Name of Customer	M/s. Real Gem Build Tech Pvt. Ltd.		Reference -Verbal
Site Address	"Orcchid Crown" Plot F.P. No. 1043 of TPS IV, Mahim Division at Gokhale Road (South), Prabhadevi, Mumbai - 400 028		
Nature and Description of Sample	Noise	Sample Collected by	EAEPL Laboratory
Sampling locations and Sample Code	1) PM/N/29-08/12/18	Sample quantity and packing	Not Applicable
Date of Sampling	28.12.2018	Date of Receipt	Not Applicable
Sampling Procedure	Environmental Noise Survey Guidance document by EPA. Noise pollution (Regulation and Control) Amendment Rule 2010.		
Period of Analysis	Not Applicable		
Report for the month	December, 2018		

Monitoring Locations	Units	Results		CPCB Norms	
		Day Time	Night Time	Day	Night
Near Main gate	dB(A) Leq.	51.5	44.6	55	45
Near Southside of site	dB(A) Leq.	54.3	44.0	55	45
Near Centreside of site	dB(A) Leq.	54.8	43.6	55	45
Near Westside of site	dB(A) Leq.	53.6	43.9	55	45

Remark: The noise levels were observed to be within CPCB limits at all of the locations.

End

For M/s. ENVIRO ANALYSTS & ENGINEERS PVT.LTD.

Lab Incharge



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Ambient Noise Level Monitoring Report

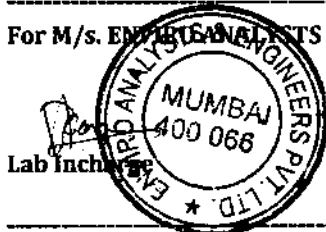
Report No. - EAEPL/PM/RGBTPL/29-08/12/2018		Report Date - 05.01.2019	
Name of Customer	M/s. Real Gem Build Tech Pvt. Ltd.		
Site Address	"Orchid Crown" Plot F.P. No. 1043 of TPS IV, Mahim Division at Gokhale Road (South), Prabhadevi, Mumbai - 400 028		Reference -Verbal
Nature and Description of Sample	Noise	Sample Collected by	EAEPL Laboratory
Sampling locations and Sample Code	1) PM/N/29-08/12/18	Sample quantity and packing	Not Applicable
Date of Sampling	28.12.2018	Date of Receipt	Not Applicable
Sampling Procedure	Environmental Noise Survey Guidance document by EPA. Noise pollution (Regulation and Control) Amendment Rule 2010.		
Period of Analysis	Not Applicable		
Report for the month	December, 2018		

Monitoring Locations	Units	Results		CPCB Norms	
		Day Time	Night Time	Day	Night
Near Main gate	dB(A) Leq.	51.5	44.6	55	45
Near Southside of site	dB(A) Leq.	54.3	44.0	55	45
Near Centreside of site	dB(A) Leq.	54.8	43.6	55	45
Near Westside of site	dB(A) Leq.	53.6	43.9	55	45

Remark: The noise levels were observed to be within CPCB limits at all of the locations.

-----End-----

For M/s. ENVIRO ANALYSTS & ENGINEERS PVT.LTD.



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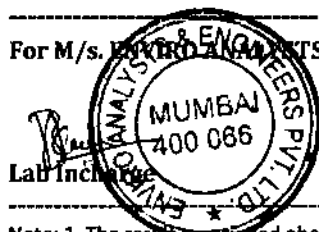
Soil Sample Analysis Report

Report No. - EAEPL/PM/RGBTPL/29-07/12/2018		Report Date - 05.01.2019	
Name of Customer	M/s. Real Gem Build Tech Pvt. Ltd.		
Site Address	"Orchid Crown" Plot F.P. No. 1043 of TPS IV, Mahim Division at Gokhale Road (South), Prabhadevi, Mumbai - 400 028		Reference - Verbal
Nature and Description of Sample	Soil	Sample Collected by	EAEPL Laboratory
Sampling locations and Sample Code	1) PM/S/29-07/12/18	Sample quantity and packing	500gm X 1 Zip lock bag
		Sample Preservation	Transported & stored in dry area.
Date of Sampling	28.12.2018	Date of Receipt	29.12.2018
Sampling Procedure	Characterization of Hazardous Waste Sites - A Methods Manual: Volume II. Available Sampling Methods, Second Edition. EPA 600/4-84-096. December 1984.		
Period of Analysis	29.12.2018 to 05.01.2019		
Report for the month	December, 2018		

Parameters	Unit	Results	Methods
pH	-	7.41	IS 2720 (Part 26):1987, Reaffirmed:2011 (Clause2-Electrometric Method)
EC	µS/cm	299.17	IS 14767:2000, Reaffirmed:2016
Organic Matter	%	2.95	IS 2720 (Part 22) - 1972 (Reaffirmed 2001)
Total Kjeldhal Nitrogen	mg/kg	907.04	IS 14684:1999 (Reaffirmed 2005)
Soil Moisture	%	13.28	IS 2720 (part02):1973 (Reaffirmed 2015) Oven drying method
Water Holding Capacity	%	34.22	EAEPL/LAB/SOP/SOIL/10
Available Phosphorus	mg/kg	1.80	EAEPL/LAB/SOP/SOIL/11
Calcium	mg/kg	2158.87	EPA 9080
Magnesium	mg/kg	121.44	EPA 9080
Chlorides	mg/kg	109.96	APHA 4500 Cl ⁻ B and ISRIC Soil analysis procedure, Page No:13-6
Sulphate	mg/kg	37.6	IS 3025 (Part 24):1986, (Water Extract 1:10)
Potassium (K)	mg/kg	2893.88	SW-846 Method 3050B
Sodium (Na)	mg/kg	3014.34	SW-846 Method 3050B
Heavy Metals:			
Copper	mg/kg	112.02	SW-846 Method 3050B
Iron	mg/kg	88714.93	SW-846 Method 3050B
Lead	mg/kg	98.74	SW-846 Method 3050B
Zinc	mg/kg	159.58	SW-846 Method 3050B

End

For M/s. Enviro Analysts & Engineers Pvt. Ltd.



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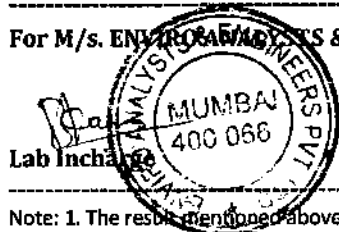
Soil Sample Analysis Report

Report No. - EAEPL/PM/RGBTPL/29-07/12/2018		Report Date - 05.01.2019	
Name of Customer	M/s. Real Gem Build Tech Pvt. Ltd.		
Site Address	"Orcchid Crown" Plot F.P. No. 1043 of TPS IV, Mahim Division at Gokhale Road (South), Prabhadevi, Mumbai - 400 028		Reference - Verbal
Nature and Description of Sample	Soil	Sample Collected by	EAEPL Laboratory
Sampling locations and Sample Code	1) PM/S/29-07/12/18	Sample quantity and packing	500gm X 1 Zip lock bag
		Sample Preservation	Transported & stored in dry area.
Date of Sampling	28.12.2018	Date of Receipt	29.12.2018
Sampling Procedure	Characterization of Hazardous Waste Sites - A Methods Manual: Volume II. Available Sampling Methods, Second Edition. EPA 600/4-84-096. December 1984.		
Period of Analysis	29.12.2018 to 05.01.2019		
Report for the month	December, 2018		

Parameters	Unit	Results	Methods
pH	-	7.41	IS 2720 (Part 26):1987, Reaffirmed:2011 (Clause2-Electrometric Method)
EC	µS/cm	299.17	IS 14767:2000, Reaffirmed:2016
Organic Matter	%	2.95	IS 2720 (Part 22) - 1972 (Reaffirmed 2001)
Total Kjeldhal Nitrogen	mg/kg	907.04	IS 14684:1999 (Reaffirmed 2005)
Soil Moisture	%	13.28	IS 2720 (part02):1973 (Reaffirmed 2015) Oven drying method
Water Holding Capacity	%	34.22	EAEPL/LAB/SOP/SOIL/10
Available Phosphorus	mg/kg	1.80	EAEPL/LAB/SOP/SOIL/11
Calcium	mg/kg	2158.87	EPA 9080
Magnesium	mg/kg	121.44	EPA 9080
Chlorides	mg/kg	109.96	APHA 4500 Cl ⁻ B and ISRIC Soil analysis procedure, Page No:13-6
Sulphate	mg/kg	37.6	IS 3025 (Part 24):1986, (Water Extract 1:10)
Potassium (K)	mg/kg	2893.88	SW-846 Method 3050B
Sodium (Na)	mg/kg	3014.34	SW-846 Method 3050B
Heavy Metals:			
Copper	mg/kg	112.02	SW-846 Method 3050B
Iron	mg/kg	88714.93	SW-846 Method 3050B
Lead	mg/kg	98.74	SW-846 Method 3050B
Zinc	mg/kg	159.58	SW-846 Method 3050B

-----End-----

For M/s. ENVIRO ANALYSTS & ENGINEERS PVT.LTD.



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Water Sample Analysis Report

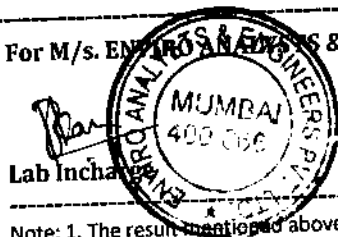
Report No. - EAEPL/PM/RGBTPL/09-15/03/2019		Report Date - 16.03.2019	
Name of Customer	M/s. Real Gem Build Tech Pvt. Ltd.		Reference - Verbal
Site Address	"Orchid Crown" Plot F.P. No. 1043 of TPS IV, Mahim Division at Gokhale Road (South), Prabhadevi, Mumbai - 400 028		
Nature and Description of Sample	Borewell Water	Sample Collected by	EAEPL Laboratory
Sampling locations and Sample Code	1) PM/W/09-15/03/19 (Centreside of site)	Sample quantity and packing	2 L X 1 Nos. PVC Can. 500 mL X 1 No. Sterilised Glass Bottle.
		Preservation	Cool - Transported and stored at 5 °C (± 1 °C).
Date of Sampling	08.03.2019	Date of Receipt	09.03.2019
Sampling Procedure	Guideline for water quality monitoring - CPCB, 2007-08.		
Period of Analysis	09.03.2019 to 16.03.2019		
Report for the month	March, 2019		

Parameters	Unit	Results	IS 10500:2012 Limits		Method
			Acceptable Limit	Permissible Limit	
pH	-	7.36	6.5-8.5	No Relaxation	IS 3025 (Part 11) (1983)
TDS	mg / l	310.00	500	2000	IS 3025 (Part 16) (1984)
Dissolved Oxygen	mg / l	5.20	-	-	IS 3025 (Part 38) (1989)
Turbidity	NTU	0.05	1	5	IS 3025 (Part 10) (1984)
Chlorides as Cl	mg / l	58.34	250	1000	IS 3025 (Part 32) (1988)
Total Hardness	mg / l	140.00	200	600	IS 3025 (Part 21) (2009)
Calcium	mg / l	26.45	75	200	IS 3025 (Part 40) (1991)
Alkalinity	mg / l	65.00	200	600	IS 3025 (Part 23) (1986)
Residual chlorine	mg / l	< 0.10	0.20	1	IS 3025 (Part 26) (1986)
Sulphate	mg / l	19.10	200	400	IS 3025 (Part 24) (1986)
Nitrate	mg / l	0.84	45	No Relaxation	EPA 352.1
Fluoride	mg / l	0.48	1	1.5	IS 3025 (Part 60) (2008)
Heavy Metals:					
Iron (Fe)	mg / l	0.108	0.3	No Relaxation	IS 3025 (Part 53) (2003)
Copper (Cu)	mg / l	0.012	0.05	1.5	IS 3025 (Part 42) 1992 Reaffirmed (2003)
Zinc (Zn)	mg / l	0.080	5	15	IS 3025 (Part 49) 1994 Reaffirmed (2003)
Lead (Pb)	mg / l	0.001	0.01	No Relaxation	IS 3025 (Part 47) 1994 Reaffirmed (2003)
Chromium (Cr)	mg / l	0.016	0.05	No Relaxation	APHA 3111 (22 nd Edition)
Microbiological Analysis:					
Total Coliform	MPN/100ml	3.00	Nil	Shall not be detectable in any 100ml sample	IS 1622:1981 Reaffirmed (1996)
E coli	MPN/100ml	Absent	Absent	Absent	IS 1622:1981 Reaffirmed (1996)

Remark: All the values are well within prescribed IS 10500:2012 Limits.

End

For M/s. ENVIRO ANALYSTS & ENGINEERS PVT. LTD.



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Water Sample Analysis Report

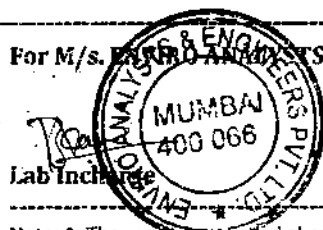
Report No. - EAEPL/PM/RGBTPL/09-15/03/2019		Report Date -16.03.2019	
Name of Customer	M/s. Real Gem Build Tech Pvt. Ltd.		Reference -Verbal
Site Address	"Orchid Crown" Plot F.P. No. 1043 of TPS IV, Mahim Division at Gokhale Road (South), Prabhadevi, Mumbai - 400 028		
Nature and Description of Sample	Borewell Water	Sample Collected by	EAEPL Laboratory
Sampling locations and Sample Code	1) PM/W/09-15/03/19 (Centreside of site)	Sample quantity and packing	2 L X 1 Nos. PVC Can. 500 mL X 1 No. Sterilised Glass Bottle.
		Preservation	Cool -Transported and stored at 5 °C (± 1°C).
Date of Sampling	08.03.2019	Date of Receipt	09.03.2019
Sampling Procedure	Guideline for water quality monitoring- CPCB, 2007-08.		
Period of Analysis	09.03.2019 to 16.03.2019		
Report for the month	March, 2019		

Parameters	Unit	Results	IS 10500:2012 Limits		Method
			Acceptable Limit	Permissible Limit	
pH	-	7.36	6.5-8.5	No Relaxation	IS 3025 (Part 11) (1983)
TDS	mg / l	310.00	500	2000	IS 3025 (Part 16) (1984)
Dissolved Oxygen	mg / l	5.20	-	-	IS 3025 (Part 38) (1989)
Turbidity	NTU	0.05	1	5	IS 3025 (Part 10) (1984)
Chlorides as Cl	mg / l	58.34	250	1000	IS 3025 (Part 32) (1988)
Total Hardness	mg / l	140.00	200	600	IS 3025 (Part 21) (2009)
Calcium	mg / l	26.45	75	200	IS 3025 (Part 40) (1991)
Alkalinity	mg / l	65.06	200	600	IS 3025 (Part 23) (1986)
Residual chlorine	mg / l	< 0.10	0.20	1	IS 3025 (Part 26) (1986)
Sulphate	mg / l	19.10	200	400	IS 3025 (Part 24) (1986)
Nitrate	mg / l	0.84	45	No Relaxation	EPA 352.1
Fluoride	mg / l	0.48	1	1.5	IS 3025 (Part 60) (2008)
Heavy Metals:					
Iron (Fe)	mg / l	0.108	0.3	No Relaxation	IS 3025 (Part 53) (2003)
Copper (Cu)	mg / l	0.012	0.05	1.5	IS 3025 (Part 42) 1992 Reaffirmed (2003)
Zinc (Zn)	mg / l	0.080	5	15	IS 3025 (Part 40) 1994 Reaffirmed (2003)
Lead (Pb)	mg / l	0.001	0.01	No Relaxation	IS 3025 (Part 47) 1994 Reaffirmed (2003)
Chromium (Cr)	mg / l	0.016	0.05	No Relaxation	APHA 3111 (22 nd Edition)
Microbiological Analysis:					
Total Coliforms	MPN/100ml	3.00	Nil	Shall not be detectable in any 100ml sample	IS 1622:1981 Reaffirmed (1996)
E coli	MPN/100ml	Absent	Absent	Absent	IS 1622:1981 Reaffirmed (1996)

Remark: All the values are well within prescribed IS 10500:2012 limits.

End

For M/s. ENVIRO ANALYSTS & ENGINEERS PVT.LTD.



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Ambient Air Quality Monitoring Report

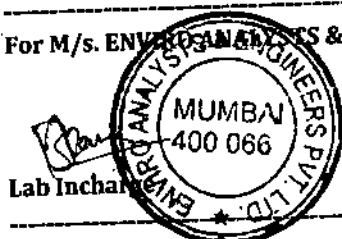
Report No. - EAEPL/PM/RGBTPL/09-14/03/2019		Report Date - 16.03.2019	
Name of Customer	M/s. Real Gem Build Tech Pvt. Ltd.		Reference - Verbal
Site Address	"Orchid Crown" Plot F.P. No. 1043 of TPS IV, Mahim Division at Gokhale Road (South), Prabhadevi, Mumbai - 400 028		
Nature and Description of Sample	Ambient Air	Sample Collected by	EAEPL Laboratory
Sampling locations and Sample Code	1)PM/A/09-14/a,b,c,d/03/19 (Main Gate)	Sample quantity and packing	PM ₁₀ = 1 * 1 No. Filter paper. PM _{2.5} = 1 * 1 No. Filter paper SO _x = 1 * 1 No. PVC bottle. NO _x = 1 * 1 No. PVC bottle.
		Sample Preservation	Filter papers - Transported and stored in desiccator. PVC bottles - Transported and stored at 5°C (±1 °C).
Date of Sampling	08.03.2019	Date of Receipt	09.03.2019
Sampling Procedure	CPCB, Conceptual guidelines and common methodology for air quality monitoring, emission inventory & source apportionment studies for Indian cities, was referred while drafting this SOP.		
Period of Analysis	09.03.2019 to 16.03.2019		
Report for the month	March, 2019		

Environmental Conditions			
Ambient air Temperature (°C)	Relative humidity (%)	Duration of Monitoring	
30.0	58.0	8 Hours	
RESULTS			
Monitoring Locations	Main Gate	NAAQS LIMITS	METHOD
Pollution Parameters	PM/A/09-14/a,b,c,d/03/19		
R.S.P.M (PM ₁₀) (µg/m ³)	43.66	100 µg/m ³	IS 5182 Part 23
R.S.P.M (PM _{2.5}) (µg/m ³)	16.22	60 µg/m ³	CPCB Method (Gravimetric method, page no 15-28)
SO ₂ (µg/m ³)	14.68	80 µg/m ³	IS 5182 Part 2
NO _x (µg/m ³)	16.20	80 µg/m ³	IS 5182 Part 6

Remark: All the measured values are well within NAAQS limits.

End

For M/s. ENVIRO ANALYSTS & ENGINEERS PVT.LTD.



Lab Incharge

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Ambient Air Quality Monitoring Report

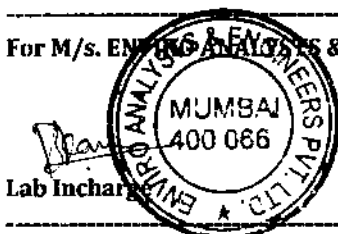
Report No. - EAEPL/PM/RGBTPL/09-14/03/2019		Report Date -16.03.2019	
Name of Customer	M/s. Real Gem Build Tech Pvt. Ltd.		Reference -Verbal
Site Address	"Orchid Crown" Plot F.P. No. 1043 of TPS IV, Mahim Division at Gokhale Road (South), Prabhadevi, Mumbai - 400 028		
Nature and Description of Sample	Ambient Air	Sample Collected by	EAEPL Laboratory
Sampling locations and Sample Code	1)PM/A/09-14/a,b,c,d/03/19 (Main Gate)	Sample quantity and packing	PM ₁₀ = 1 * 1 No. Filter paper. PM _{2.5} = 1 * 1 No. Filter paper SO _x = 1 * 1 No. PVC bottle. NO _x = 1 * 1 No. PVC bottle.
		Sample Preservation	Filter papers - Transported and stored in desiccator. PVC bottles - Transported and stored at 5°C (±1 °C).
Date of Sampling	08.03.2019	Date of Receipt	09.03.2019
Sampling Procedure	CPCB, Conceptual guidelines and common methodology for air quality monitoring, emission inventory & source apportionment studies for Indian cities, was referred while drafting this SOP.		
Period of Analysis	09.03.2019 to 16.03.2019		
Report for the month	March, 2019		

Environmental Conditions			
Ambient air Temperature (°C)	Relative humidity (%)	Duration of Monitoring	
30.0	58.0	8 Hours	
RESULTS			
Monitoring Locations	Main Gate	NAAQS LIMITS	METHOD
Pollution Parameters	PM/A/09-14/a,b,c,d/03/19		
R.S.P.M (PM ₁₀) (µg/m ³)	43.66	100 µg/m ³	IS 5182 Part 23
R.S.P.M (PM _{2.5}) (µg/m ³)	15.22	60 µg/m ³	CPCB Method (Gravimetric method, page no 15-28)
SO ₂ (µg/m ³)	14.68	80 µg/m ³	IS 5182 Part 2
NO _x (µg/m ³)	16.20	80 µg/m ³	IS 5182 Part 6

Remark: All the measured values are well within NAAQS limits.

-----End-----

For M/s. ENVIRO ANALYSTS & ENGINEERS PVT.LTD.



Lab Incharge

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Ambient Noise Level Monitoring Report

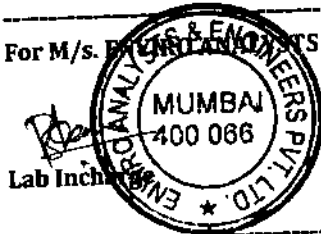
Report No. - EAEPL/PM/RGBTPL/09-17/03/2019			Report Date - 16.03.2019
Name of Customer	M/s. Real Gem Build Tech Pvt. Ltd.		Reference - Verbal
Site Address	"Orchid Crown" Plot F.P. No. 1043 of TPS IV, Mahim Division at Gokhale Road (South), Prabhadevi, Mumbai - 400 028		
Nature and Description of Sample	Noise	Sample Collected by	EAEPL Laboratory
Sampling locations and Sample Code	1) PM/N/09-17/03/19	Sample quantity and packing	Not Applicable
Date of Sampling	08.03.2019	Date of Receipt	Not Applicable
Sampling Procedure	Environmental Noise Survey Guidance document by EPA. Noise pollution (Regulation and Control) Amendment Rule 2010.		
Period of Analysis	Not Applicable		
Report for the month	March, 2019		

Monitoring Locations	Units	Results		CPCB Norms	
		Day Time	Night Time	Day	Night
Near Main gate	dB(A) Leq.	53.7	43.9	55	45
Near Southside of site	dB(A) Leq.	54.1	43.8	55	45
Near Centreside of site	dB(A) Leq.	54.2	43.4	55	45
Near Westside of site	dB(A) Leq.	53.7	43.2	55	45

Remark: The noise levels were observed to be within CPCB limits at all of the locations.

End

For M/s. ENVIRO ANALYSTS & ENGINEERS PVT.LTD.



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Ambient Noise Level Monitoring Report

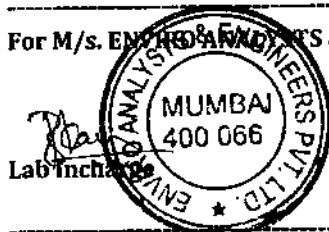
Report No. - EAEPL/PM/RGBTPL/09-17/03/2019			Report Date - 16.03.2019		
Name of Customer	M/s. Real Gem Build Tech Pvt. Ltd.				
Site Address	"Orchid Crown" Plot F.P. No. 1043 of TPS IV, Mahim Division at Gokhale Road (South), Prabhadevi, Mumbai - 400 028			Reference -Verbal	
Nature and Description of Sample	Noise	Sample Collected by	EAEPL Laboratory		
Sampling locations and Sample Code	1) PM/N/09-17/03/19	Sample quantity and packing	Not Applicable		
Date of Sampling	08.03.2019	Date of Receipt	Not Applicable		
Sampling Procedure	Environmental Noise Survey Guidance document by EPA. Noise pollution (Regulation and Control) Amendment Rule 2010.				
Period of Analysis	Not Applicable				
Report for the month	March, 2019				

Monitoring Locations	Units	Results		CPCB Norms	
		Day Time	Night Time	Day	Night
Near Main gate	dB(A) Leq.	53.7	43.9	55	45
Near Southside of site	dB(A) Leq.	54.1	43.8	55	45
Near Centreside of site	dB(A) Leq.	54.2	43.4	55	45
Near Westside of site	dB(A) Leq.	53.7	43.2	55	45

Remark: The noise levels were observed to be within CPCB limits at all of the locations.

End

For M/s. ENVIRO ANALYSTS & ENGINEERS PVT.LTD.



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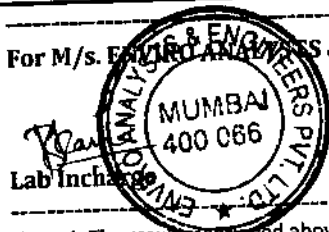
Soil Sample Analysis Report

Report No. - EAEPL/PM/RGBTPL/09-16/03/2019		Report Date - 16.03.2019	
Name of Customer	M/s. Real Gem Build Tech Pvt. Ltd.		Reference - Verbal
Site Address	"Orchid Crown" Plot F.P. No. 1043 of TPS IV, Mahim Division at Gokhale Road (South), Prabhadevi, Mumbai - 400 028		
Nature and Description of Sample	Soil	Sample Collected by	EAEPL Laboratory
Sampling locations and Sample Code	1) PM/S/09-16/03/19	Sample quantity and packing	500gm X 1 Zip lock bag
		Sample Preservation	Transported & stored in dry area.
Date of Sampling	08.03.2019	Date of Receipt	09.03.2019
Sampling Procedure	Characterization of Hazardous Waste Sites - A Methods Manual: Volume II. Available Sampling Methods, Second Edition. EPA 600/4-84-096. December 1984.		
Period of Analysis	09.03.2019 to 16.03.2019		
Report for the month	March, 2019		

Parameters	Unit	Results	Methods
pH	-	7.36	IS 2720 (Part 26):1987, Reaffirmed:2011 (Clause2-Electrometric Method)
EC	µS/cm	302.64	IS 14767:2000, Reaffirmed:2016
Organic Matter	%	2.56	IS 2720 (Part 22) - 1972 (Reaffirmed 2001)
Total Kjeldhal Nitrogen	mg/kg	812.49	IS 14684:1999 (Reaffirmed 2005)
Soil Moisture	%	14.62	IS 2720 (part02):1973 (Reaffirmed 2015) Oven drying method
Water Holding Capacity	%	35.48	EAEPL/LAB/SOP/SOIL/10
Available Phosphorus	mg/kg	1.62	EAEPL/LAB/SOP/SOIL/11
Calcium	mg/kg	2089.66	EPA 9080
Magnesium	mg/kg	118.34	EPA 9080
Chlorides	mg/kg	98.98	APHA 4500 Cl ⁻ B and ISRIC Soil analysis procedure, Page No:13-6
Sulphate	mg/kg	36.40	IS 3025 (Part 24):1986, (Water Extract 1:10)
Potassium (K)	mg/kg	2957.68	SW-846 Method 3050B
Sodium (Na)	mg/kg	3126.47	SW-846 Method 3050B
Heavy Metals:			
Copper	mg/kg	100.56	SW-846 Method 3050B
Iron	mg/kg	86489.34	SW-846 Method 3050B
Lead	mg/kg	100.12	SW-846 Method 3050B
Zinc	mg/kg	145.66	SW-846 Method 3050B

End

For M/s. ENVIRO ANALYSTS & ENGINEERS PVT.LTD.



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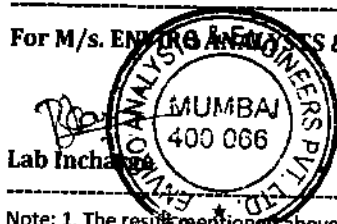
Soil Sample Analysis Report

Report No. - EAEPL/PM/RGBTPL/09-16/03/2019		Report Date - 16.03.2019	
Name of Customer	M/s. Real Gem Build Tech Pvt. Ltd.		Reference -Verbal
Site Address	"Orcchid Crown" Plot F.P. No. 1043 of TPS IV, Mahim Division at Gokhale Road (South), Prabhadevi, Mumbai - 400 028		
Nature and Description of Sample	Soil	Sample Collected by	EAEPL Laboratory
Sampling locations and Sample Code	1) PM/S/09-16/03/19	Sample quantity and packing	500gm X 1 Zip lock bag
		Sample Preservation	Transported & stored in dry area.
Date of Sampling	08.03.2019	Date of Receipt	09.03.2019
Sampling Procedure	Characterization of Hazardous Waste Sites - A Methods Manual: Volume II. Available Sampling Methods, Second Edition. EPA 600/4-84-096. December 1984.		
Period of Analysis	09.03.2019 to 16.03.2019		
Report for the month	March, 2019		

Parameters	Unit	Results	Methods
pH	-	7.36	IS 2720 (Part 26):1987, Reaffirmed:2011 (Clause2-Electrometric Method)
EC	µS/cm	302.64	IS 14767:2000, Reaffirmed:2016
Organic Matter	%	2.56	IS 2720 (Part 22) – 1972 (Reaffirmed 2001)
Total Kjeldhal Nitrogen	mg/kg	812.49	IS 14684:1999 (Reaffirmed 2005)
Soil Moisture	%	14.62	IS 2720 (part02):1973 (Reaffirmed 2015) Oven drying method
Water Holding Capacity	%	35.48	EAEPL/LAB/SOP/SOIL/10
Available Phosphorus	mg/kg	1.62	EAEPL/LAB/SOP/SOIL/11
Calcium	mg/kg	2089.66	EPA 9080
Magnesium	mg/kg	118.34	EPA 9080
Chlorides	mg/kg	98.98	APHA 4500 Cl ⁻ B and ISRIC Soil analysis procedure, Page No:13-6
Sulphate	mg/kg	36.40	IS 3025 (Part 24):1986, (Water Extract 1:10)
Potassium (K)	mg/kg	2957.68	SW-846 Method 3050B
Sodium (Na)	mg/kg	3126.47	SW-846 Method 3050B
Heavy Metals:			
Copper	mg/kg	100.56	SW-846 Method 3050B
Iron	mg/kg	86489.34	SW-846 Method 3050B
Lead	mg/kg	100.12	SW-846 Method 3050B
Zinc	mg/kg	145.66	SW-846 Method 3050B

End

For M/s. ENVIRO ANALYSTS & ENGINEERS PVT.LTD.



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